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ONE SHILLING WEEKLY

• PUBLISHED TODAY

• INFORMATION DIGEST

PUBLISHED IN LONDON SINCE 1854

ISSUED BY British Paints Limited in support of the National Federation of Master Painters efforts to maintain employment in the industry during the winter months.

# Winter painting pays ..



## 5 points show advantages of winter painting schedules

### THESE MODERN QUICK-DRYING PAINTS WILL GIVE YOU THE FINEST INTERIOR PAINTING OF ALL

#### 'SUPERLATIVE' Gloss/Eggshell

Well known in the trade as *The Best Gloss Paint in the World*. Superlative—the supreme "traditional" high gloss Alkyd Enamel for all inside or outside work. Also in Eggshell finish for inside use only.

'LUXOL' Enamel—No better high opacity gloss finish exists. For traditional use where normal painting and undercoating are essential, though on properly prepared surfaces in good condition one coat gives splendid coverage of existing paintwork. Dry in about 6 hours. Highly durable inside or out.

'AQUASHEEN'—Quick drying water thinned enamel for speedy economical coverage of large wall areas in factories.

#### 'MURISAN' Latex Emulsion

A traditional type of emulsion of superb quality, possessing every advantage of this type of material. Odourless, easily applied with large wall brushes. Can be second coated within one hour. For all ceiling and wall surfaces.

'HOYFLAT'—A high quality interior matt oil finish. Ideal where a more permanent finish is required than is possible with water paint. Gives perfect coverage over 100/120 sq. yds. per gallon.

*You help yourself as well as your decorator when you allocate some of your interior painting to the winter months . . .*

- Skilled labour is plentiful—immediately available.
- Less delay in starting—work more speedily completed.
- The painting schedules you decide on can be more readily met.
- Cost is lower. The overtime rates that are often necessary in spring and summer rush time periods can be avoided during winter.
- Modern quick-drying paints are ideal for winter work.

**Winter painting can be of considerable advantage to you as well as a help to your decorator.**



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## Perfect for busy stairways

Quiet, durable, easy-to-clean lino is ideal for stairways—and all floors.

Architects seeking the ideal floor coverings should consider the unique combination of qualities LINOLEUM provides.



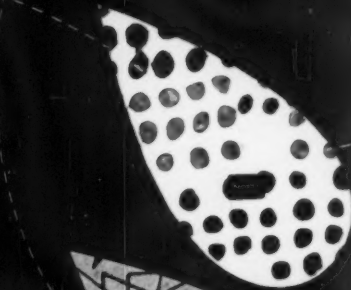
It is economical, hard-wearing, maintenance-free over many years, sympathetic to the feet and offers unlimited scope for design and colour. It's not surprising that LINOLEUM has been proved for nearly a century in every type of building and in every form of transport in almost every country in the world.

Talk about LINOLEUM to your Flooring Contractor—he knows! Above all, talk about BARRY'S LINOLEUM, Trade Mark RUBOLEUM, the aristocrat of all floor coverings. RUBOLEUM is obtainable in 2 gauges 6.7 mm. and 4.5 mm., and in a great variety of colours and patterns.

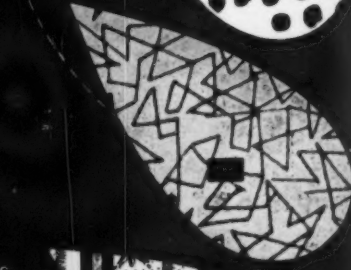
**BARRY'S**

Have you seen a  
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latest sample book?

It is a revolution in Colour Harmony using, for the first time ever, colours specially blended to harmonise with B.S. Colour Range 101 and containing charts permitting simple selection of colour combinations.



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*Curtain Walling*

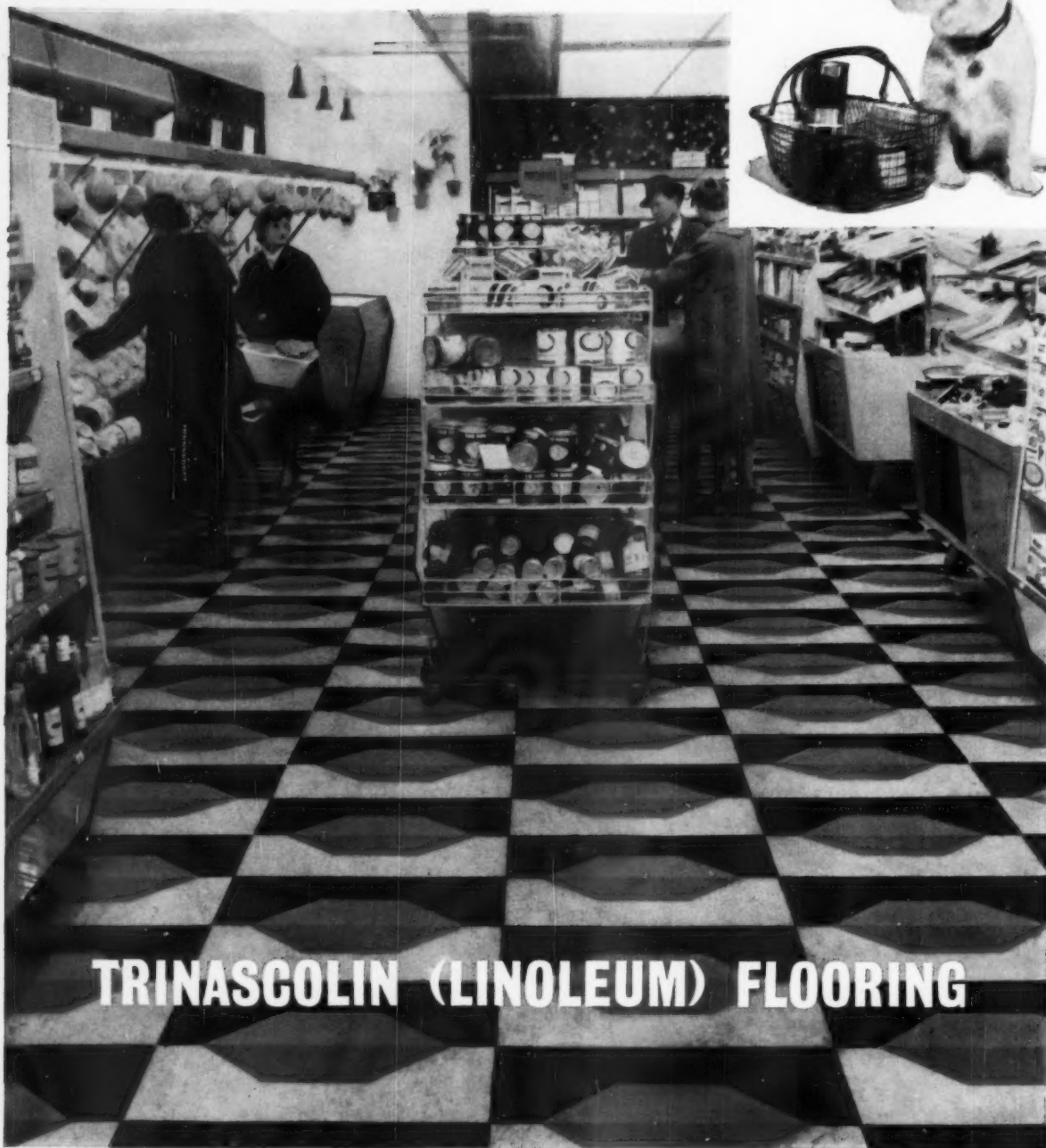


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*Architects: Farmer & Dark, F.F.R.I.B.A.*  
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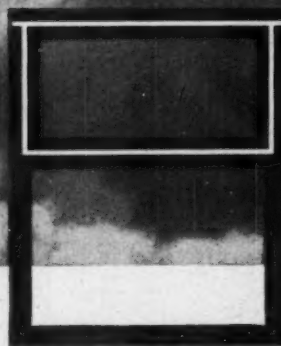
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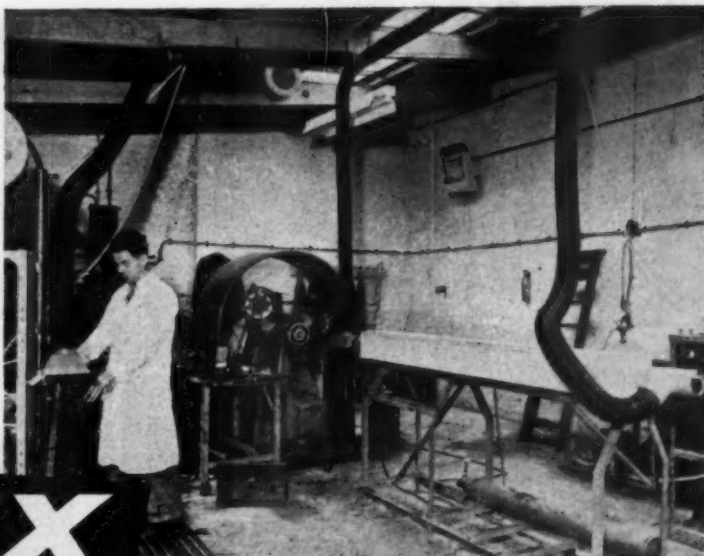


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\* Cut through tube to show closely interlocked layers.

Detailed pre-planning and prefabrication are unnecessary with Kopex Pliable Ducting. It can be cut, bent by hand—even to small radii—and fixed to conform with the most intricate layout on site. Jointing is reduced to a minimum because Kopex can be supplied in continuous lengths.

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<b>EASILY SHAPED</b> Can be bent to small radii without distortion of bore.	<b>CUTS ON SITE</b> Cuts easily with a knife.	<b>SIMPLE TO ERECT</b> Strong but light in weight, greatly simplifying erection.

**KOPEX Pliable Ducting** is supplied to heating and ventilating engineers, Government authorities and principal Industrial Companies in Great Britain.



\* Kopex Pliable Ducting is easily coiled for storage and transport.

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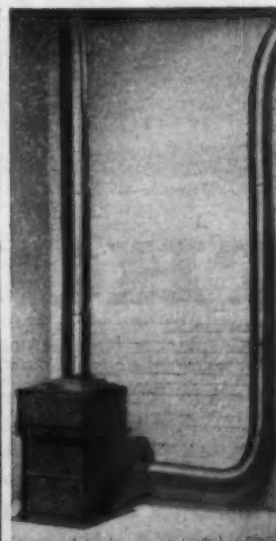
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Works: Alpha Street, Slough, Bucks.  
Telephone: SLOUGH 25476/7/8.

\* Fume extraction.

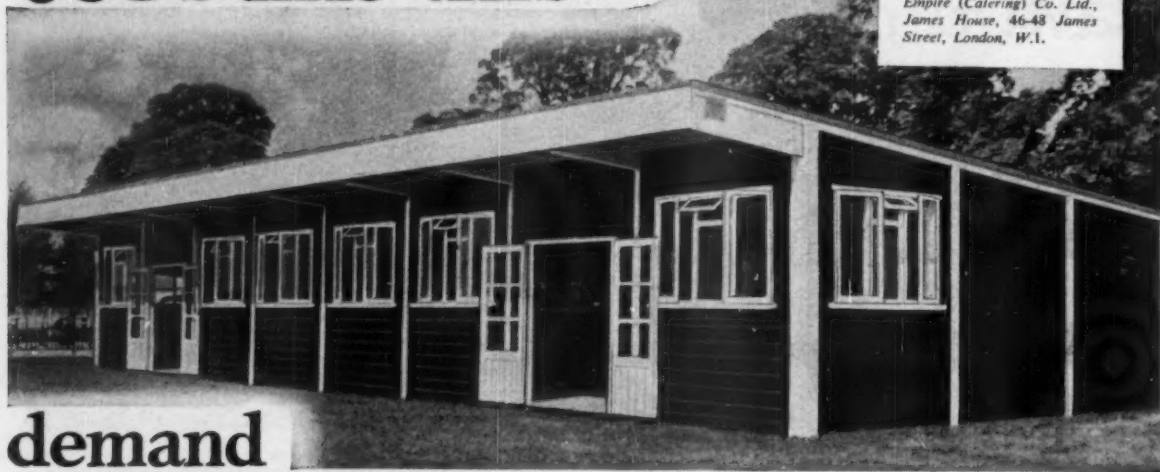


\* Air filter showing arrangement of ducting free from joints.



## CASE RECORDS FROM THORNS' FILES . . . 3

## Jobs like this



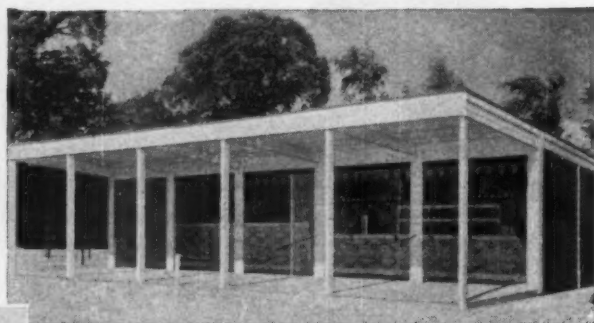
● Members' Pavilion, 64' x 25' x 11' 6", plus 5' canopy. Photographs by courtesy of Empire (Catering) Co. Ltd., James House, 46-48 James Street, London, W.1.

demand

*versatility... speed... economy...*

## SPECIFICATION

3 Timber buildings, of mono pitch design, with canopies along fronts. Weatherboarded walls; boarded roofs, covered with green mineralized roofing felt. Full-length partition and counter in each building. Walls and roofs lined with fibreboard. Roller shutter doors for two buildings. Delivered and erected on prepared bases and decorated in selected colours.



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THORNS also have three standard systems of prefabrication, capable of meeting almost all requirements.

THORNS are prepared to supply only, supply and erect, or carry out the complete works.

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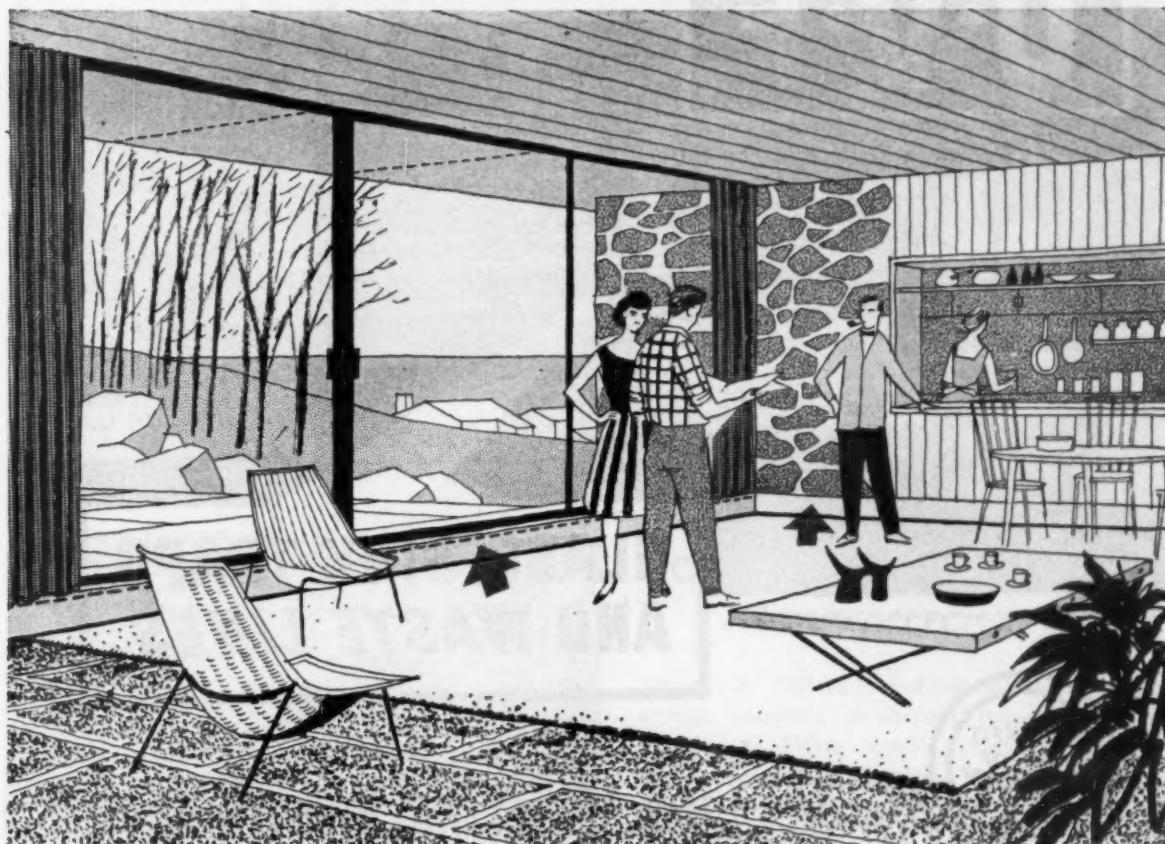
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**PAVILIONS AT****GOODWOOD MOTOR RACING TRACK**

Having received an outline of what was required, Thorns designed three special buildings, as illustrated here. These were approved, and the order was placed on March 3rd. The essential thing was to get at least two of them in use for the Easter meeting on April 7th. This left little time for producing two completely non-standard buildings, erecting and decorating them, but Thorns rose to the occasion and they were both in use at the Easter meeting. The third one was completed in time for Whitsun.

Generally speaking, it is quicker and more economical to use one of Thorns' standard systems of construction, but Thorns are equally capable of designing and producing buildings to a customer's special requirement.

## Where heat loss is high



Manual (No. 423) on Crane Skirting Heating may be had on application to  
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 118 Wigmore Street, London, W.1 and  
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*Works:* IPSWICH

**E**VEN in the case of a private house, where normally the cubic space to be heated is in relatively small units, the existence of a large window area in any of these units will appreciably increase the amount of heat required to maintain a steady, equable temperature.

Fortunately this loss of heat can now be countered very efficiently, and very much more simply than might be imagined, by the installation of Crane Skirting Heating. This system of heating, which is more and more widely recognized by the architect and heating engineer as the answer to heating problems in general, owing to its unobtrusiveness and even distribution of warmth, is particularly suitable to this problem.

Crane Skirting Heating takes the form of heating panels which 'stand-in' for normal skirting boards. The Type RC (radiant-convactor) panel is nominally 9 inches high and is used in this instance directly beneath the window to offset the heat loss (see arrow). Type R (radiant) panels are in two sizes—6-inch and 9-inch (the latter marked with arrow). All panels are in 2-ft and 1-ft lengths and are made of cast iron, which gives them considerable resistance to accidental damage. The operations of calculating heat requirements and designing the pipework are in principle no different from those for conventional radiator heating systems.

Whenever the architect needs greater freedom of expression than conventional heating systems allow him, and at the same time has to pay due consideration to costs, the answer is, undoubtedly,

**CRANE** skirting heating

**Q·V·F**

Photograph by courtesy of Nottingham Technical College.

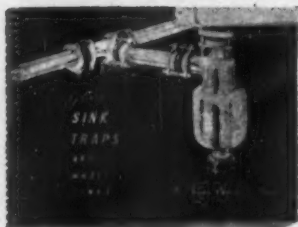
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*Quickly fitted, Visible flow, Free from corrosion.*

The Q·V·F· System of Glass Sink Traps and Waste-Lines is ideally suited for installations in Chemical, Pharmaceutical and Biological Laboratories. The transparency of the system allows any build-up of solids to be instantly detected—an important point where the efficient disposal of noxious liquids is of paramount importance. In addition, the smooth surface of the glass minimises scale formation and the whole system is sufficiently strong to withstand thermal shock of alternate flushing with boiling and ice-cold liquids.

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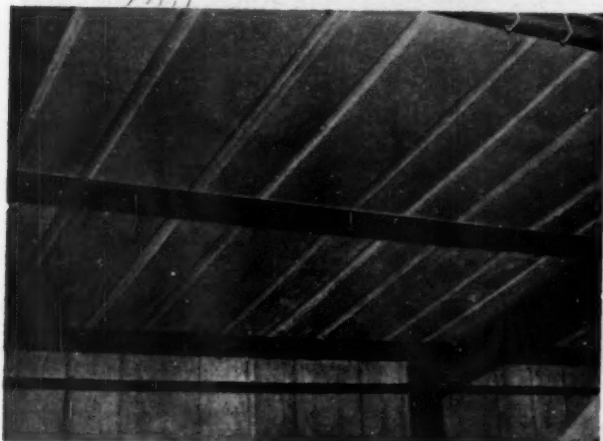
'Grams: Q.V.F., STOKE-ON-TRENT, TELEX.

# High resistance to thermal transmission...



## Major Six

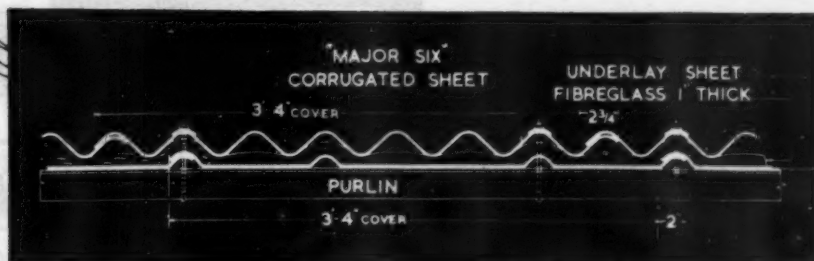
### DOUBLE CLADDING INSULATION



Photograph above illustrates interior view of roof

"Major six" DOUBLE cladding insulation provides a high resistance to thermal transmission, contributing to higher equable interior temperature and consequent economical heating. Here is dependable roofing made for quick erection and permanent service.

It's the DOUBLE cladding that does it!—a rigid asbestos-cement underlining sheet laid directly on purlins as a soffit upon which the sheet of insulation is laid before putting the "Major six" sheet in position.



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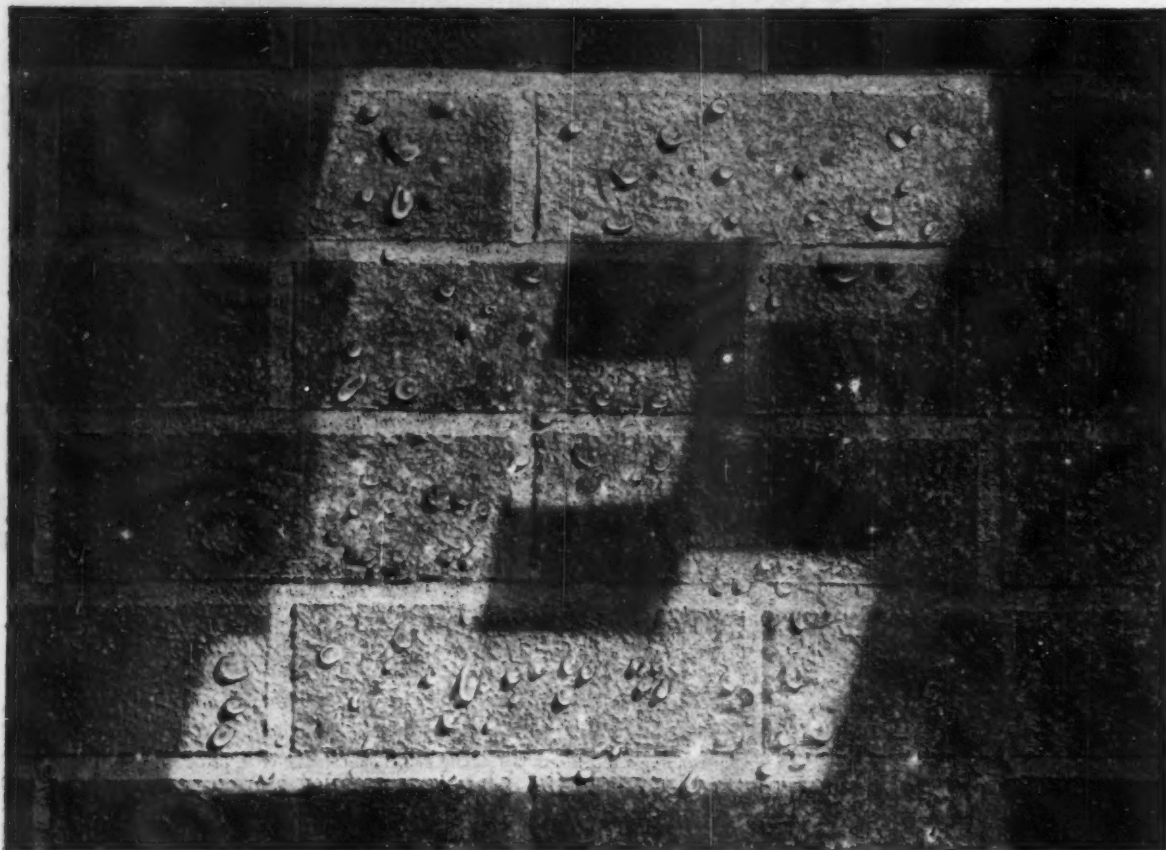
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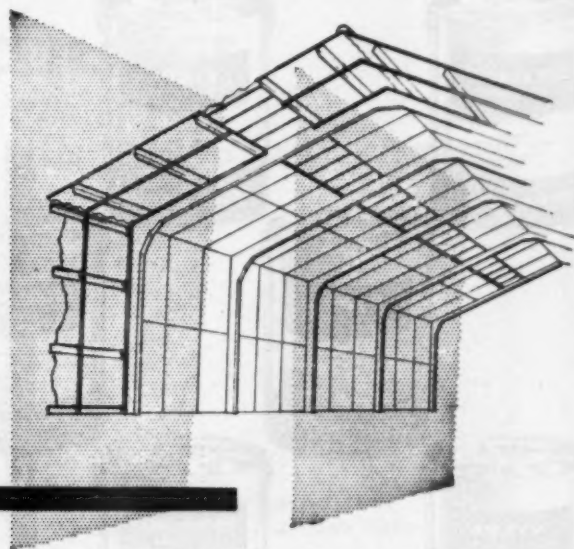
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*GRECON is fast becoming established as the insulation fixing system. The reasons are not far to seek. Here are some of them:*

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It can be fitted to any type of building in any plane—without special help, without special tools, without special equipment, and is readily adapted to cope with structural peculiarities.

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**PRICE**—One GRECON Pack, containing all the fittings to cover a 50 sq yd area, costs only £10. (Plastic sealing strip and panelling extra.)

We recommend

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Use only non-flam, non-corrosive or Standard Grades of expanded Polystyrene.

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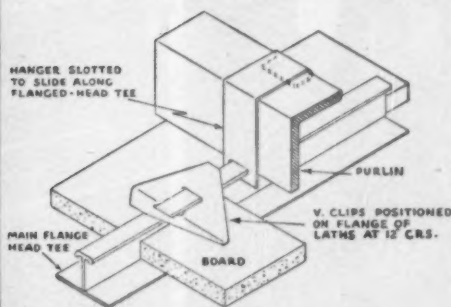
# DOCKERS' PAINTS



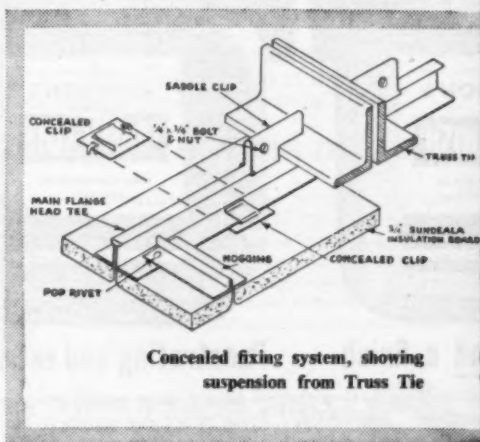
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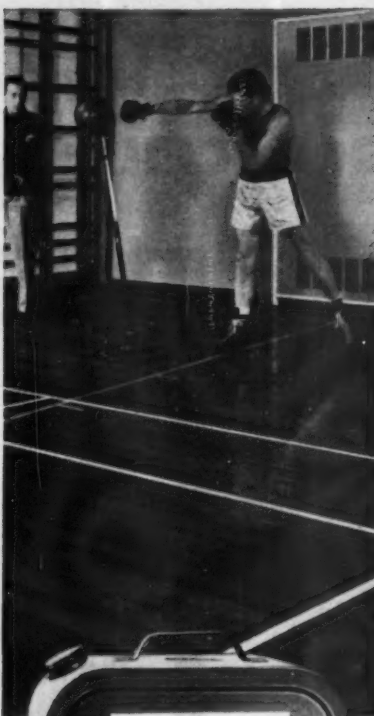
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## Dry in 15 minutes!

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A tough oleo-resinous floor seal with excellent slip-retardant properties. Specially prepared to resist scuffing from rubber soles on gym floors.



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A heavy duty penetrating seal which gives floors the toughest kind of protection against wear, and seals them against water, oil and dirt stains.

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Johnson's have a nationwide team of floor experts—known as 'J-Men'—ready to solve your floor problems. Just telephone or write.



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Pioneers in carbide tipped masonry drills, the Rawlplug Company has gone still further ahead with the widest range of percussion, vibration

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For use in Wheelbrace or slow speed electric drill

**17** sizes 5/32" to 1" cutting diameter and **11** long series 1/2" to 1" cutting diameter for up to 16" drilling length.



## 'DURIUM' TIPPED HAMMER DRILLS



For percussion drilling in hard materials such as Granite, Blue Bricks, Concrete etc., Durium Hammer Drills have a very much longer life than ordinary percussion drills. They can be used in most electric Hammers and some type of Pneumatic Hammers. 13 sizes from 7/16" nominal drill diameter to 1 1/2".

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For use in glass, china, vitrolite, pottery, etc. Can be used in a wheelbrace or slow speed electric drill. 9 sizes from 1/8" to 1/2" cutting diameter.



## 'VIBROTO' HARD TIPPED DRILLS FOR VIBRATORY DRILLING

Vibroto Drills are specially manufactured for use with the Vibroto Drilling Machine, —a high efficiency power tool which allows of two vibratory actions (Light Rapid and Heavy Slow), and also a rotary action for use with standard Durium masonry Drills or ordinary Twist Drills. With their special cutting angle metallic carbide tips, and the high grade steel shanks heat-treated to withstand abrasion, Vibroto Drills put up spectacular performances in the drilling of concrete and other hard materials. Demonstrations can be carried out by Rawlplug Technical Representatives anywhere in the British Isles.

**10** sizes 5/32" up to 15/32" cutting diameter.



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These drill are designed for hole boring in concrete, hard brickwork and tiles with portable rotary action tools. They have from four to six cutting edges (depending on size) and if one should be damaged the remainder will go on cutting. Spoil is automatically carried away through the cored shank and ejected via the slot.

## EXTENSION TYPE DRILLS ANY DEPTH

By adding extension rods to the Extension Type Rawlcrete Drill, any depth of hole can be drilled. **26** sizes 1/8" up to 2" cutting diameter.



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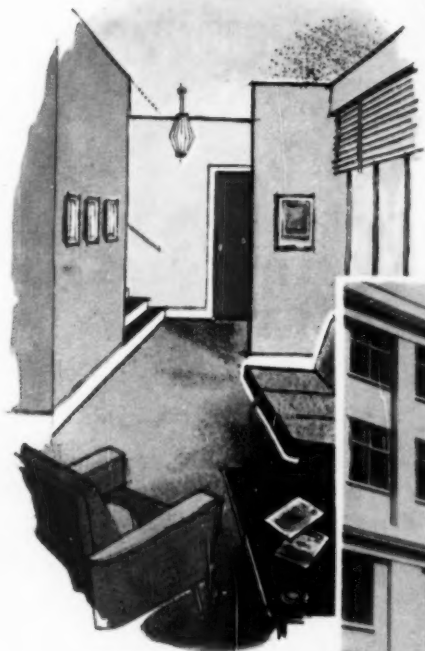
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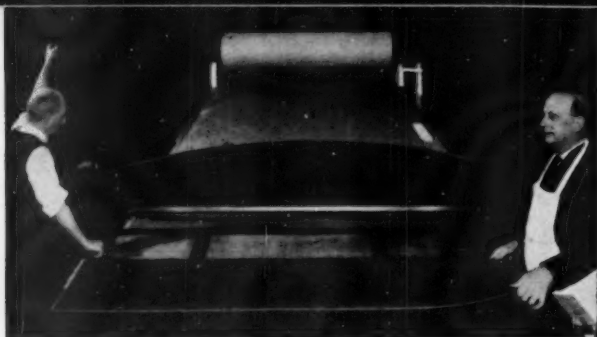
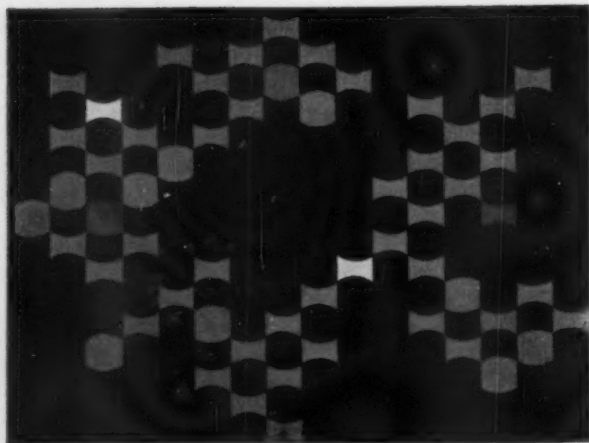


*This is the second in a series of articles designed to interest and inform architects on the techniques and scope of linoleum opportunities open to them with modern linoleum floorcoverings.*

# linoleum contractors' techniques

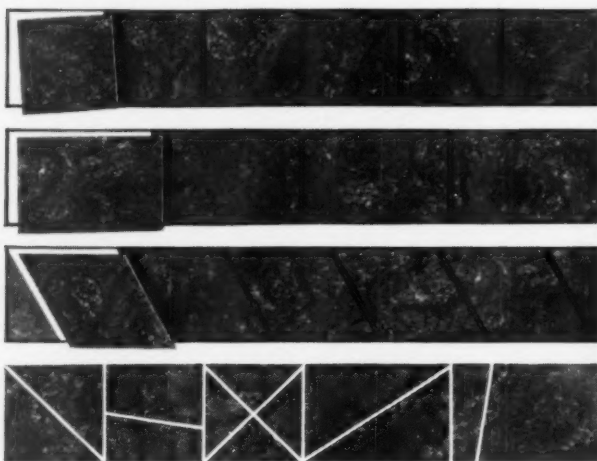
To an increasing extent in the last few years, flooring contractors have cut linoleum into tiles instead of laying it in the form of sheet; some of them say that they use tiles for 90% of their work. This article explains some of the reasons for the change and suggests ways in which the architect can turn this new flexibility to advantage.

Linoleum in sheet form is still cheaper to lay when large unobstructed areas are to be covered; but when faced with complex outlines and central pillars, especially in cramped areas, flooring contractors have found that they can install tiles with very little waste of material, and at costs that are competitive with sheet linoleum. It is here that some knowledge of the contractors' techniques and working methods can help the architect to design interesting floors and still keep down costs.



Photos of guillotining and die-cutting: Courtesy E. J. Elgood Ltd.

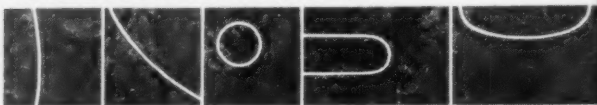
**Cutting tiles** The contractor uses a guillotine to cut 'slabs' of linoleum across the roll, wide enough to allow a small margin for trimming the tile later. The tiles themselves can be hand-cut by knife—a slow and expensive process—guillotined, or die-cut.

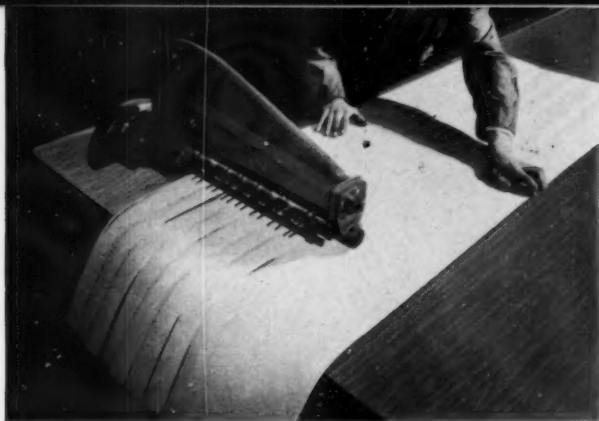


**Guillotining** Hand-operated or power-driven guillotines can cut squares, oblongs and triangles almost equally economically.



**Die-cutting** Some contractors have semi-automatic machines that cut tiles up to 18" square in one movement. These machines also accept special dies to cut other shapes—such as those below—simultaneously with the rectangular tile. (Both parts of the tile should be used in the design to minimise waste.) The design of such shapes should avoid running the shaped cutter into the corner of the tile, where it would create strong side pressures during cutting.





**Strip cutting** Lacing strips and border strips, in widths ranging from  $\frac{1}{4}$ -inch to 18 inches, are used to form decorative effects or borders. (For use as borders, they are cut slightly wide to allow for fitting to irregularities of the wall line.) The cutting machine slices almost through the thickness of the linoleum to make the strips, which are then finally separated as required by the layer on site.

**Economical tile sizes** Since linoleum is delivered in rolls 72 inches wide, contractors find the following sizes the most economical to cut:

NOMINAL: \* 9 inches, 12 inches, 18 inches, 24 inches, 36 inches.

\* Actual sizes are approximately  $\frac{1}{4}$ -inch less than the nominal sizes of all purpose-cut tiles.



#### THE USES OF SHEET LINOLEUM

This article does not, of course, set out to show that tiles have entirely replaced the traditional way of laying linoleum in sheet form—even where the architect wants to introduce designs in his floor. Below are three ways of using sheet linoleum in individual situations:—

**Hand-cut designs** Linoleum is easier than most floor coverings to cut into individual designs, and cutting by hand offers the designer the greatest possible freedom of treatment in producing a spectacular floor like the one shown below. At such a focal point—it was, in fact, John Piper's 'Baroque Room' in *The Observer's* Film Festival—the extra cost would be amply justified.

*Courtesy Design magazine*



TH SYMBOL DESIGNED BY RAYMOND LOEWY  
Courtesy International Harvester Company  
of Great Britain Limited

**Hand-cut motifs** Most contractors employ craftsmen who will enjoy reproducing in linoleum a motif like this one, being laid in the entrance hall of International Harvester's offices in City Road, London.

**Repeated motifs hand-cut by template** For special purposes, the contractor can make a hardboard or metal template to cut out several motifs—and the corresponding spaces for them in the background colour.

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A full-colour book illustrating new directions in floor design will soon be available to all interested architects. If you would like to receive a free copy immediately upon publication, please write to: Michael Nairn & Company Limited, P.O. Box 1, Kirkcaldy, Scotland.

#### NAIRN MELOTONE LINOLEUM

The new range of colours of Nairn Melotone Linoleum, consisting of 8 muted shades with softly blended marking, is illustrated on the right-hand edge of this page, together with a selection of colours from the plain and marble ranges in 4.50 mm gauge. A large selection is also available in 6.70 mm gauge. Please write for information to one of the addresses below or consult your technical representative.

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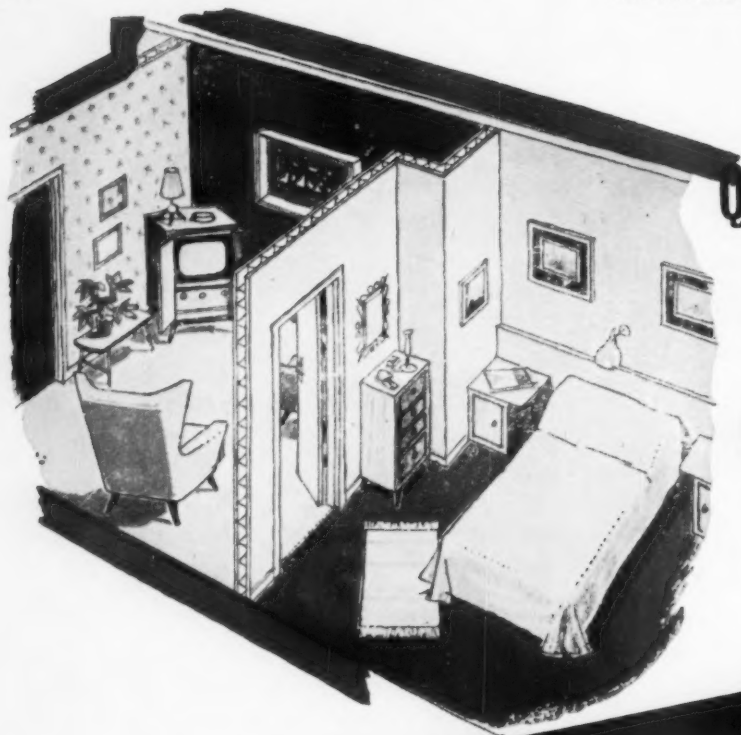
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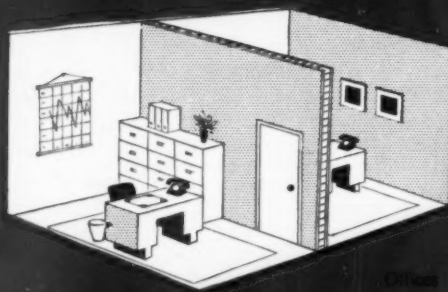
Construction and  
Conversion

# Paramount Dry Partition

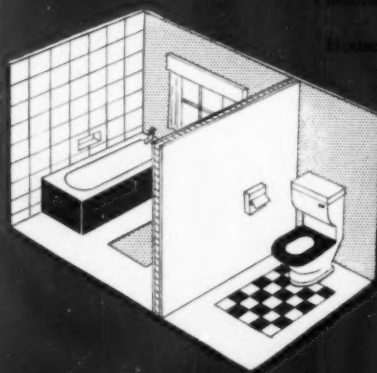
Ideal for inner linings to external walls, internal walls and partitions, Paramount Dry Partition is strong, rigid, easy-to-cut and handle. Light in weight, highly fire-resistant it has good sound and thermal insulating properties. Being a 'dry' product, it is ready for immediate decoration and saves hours of on-site labour. The accompanying illustrations give an idea of the impressive range of uses for this outstanding wall unit. Off-cuts have the same strength as the original panel and can be used for constructing built-in wardrobes, airing and meter cupboards etc. For full details about all Blue Hawk DRY CONSTRUCTION materials apply to:

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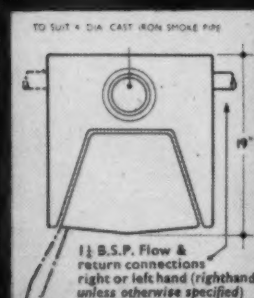
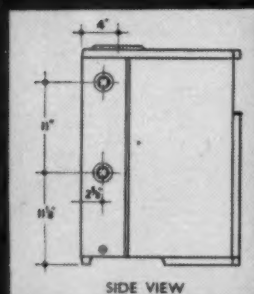
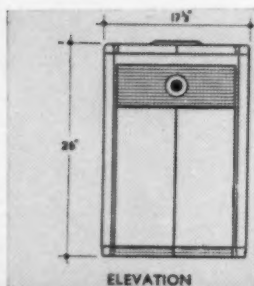
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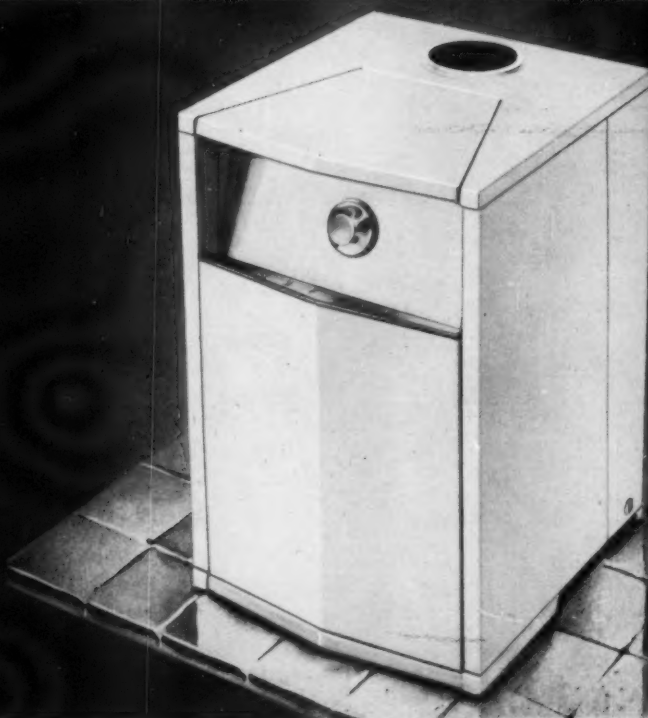


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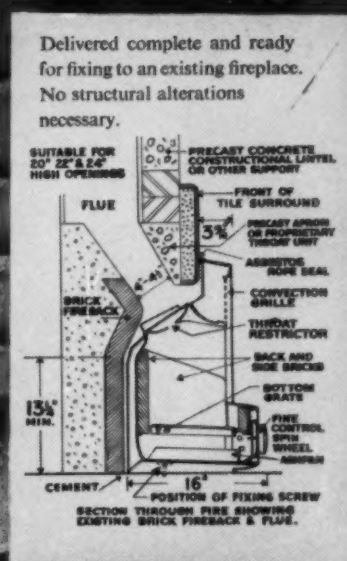


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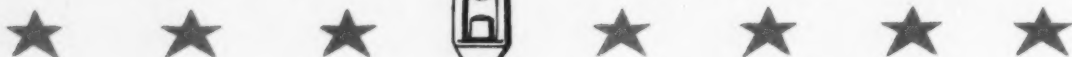
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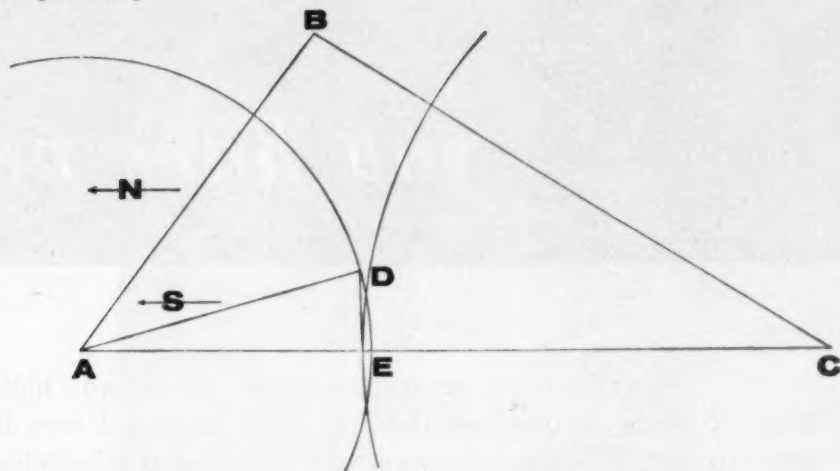
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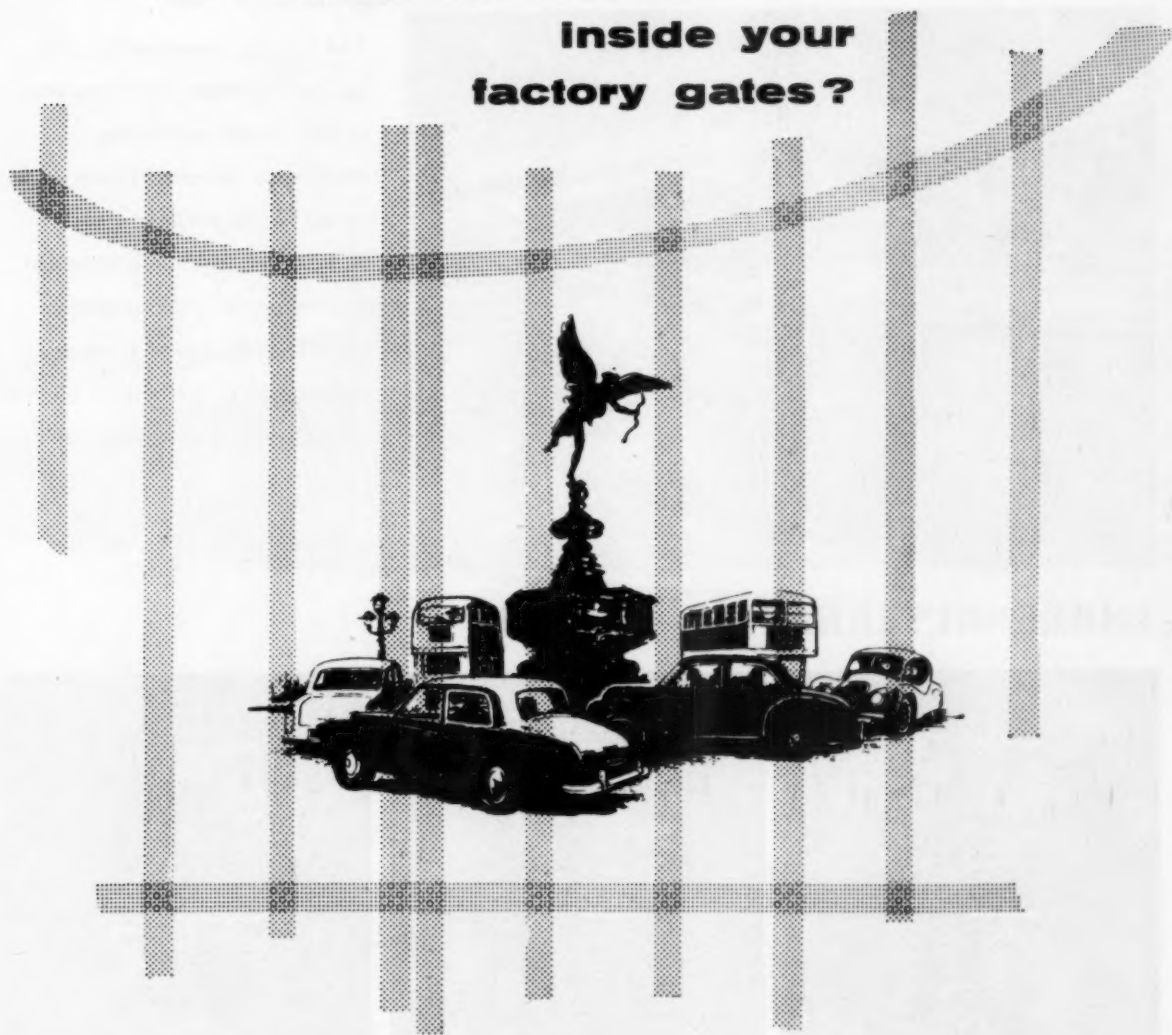
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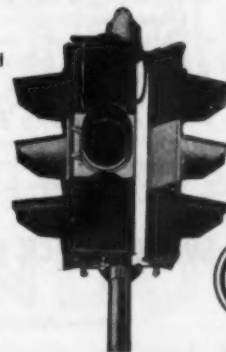
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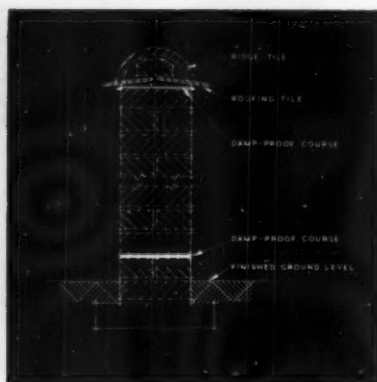
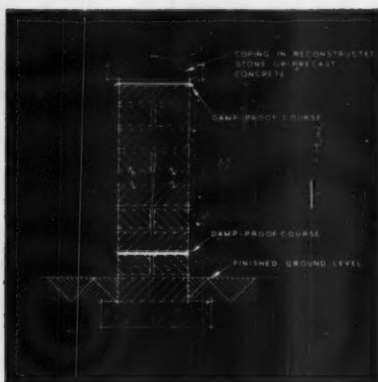
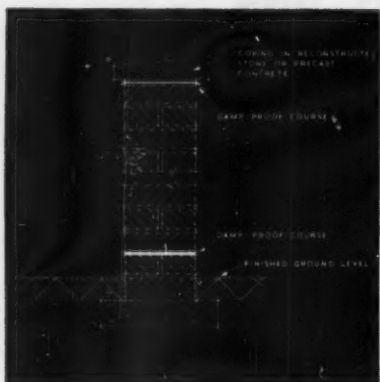


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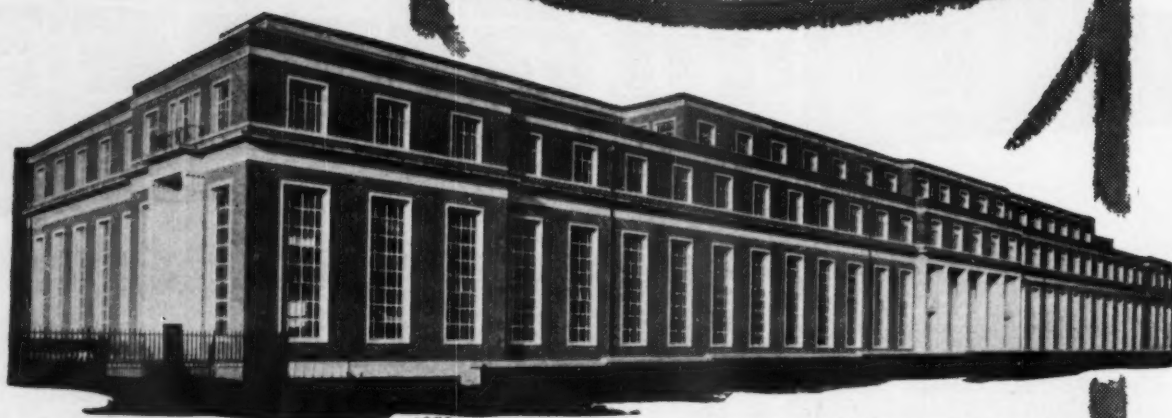
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A GLASS AGE DEVELOPMENT  
COMMITTEE STUDY

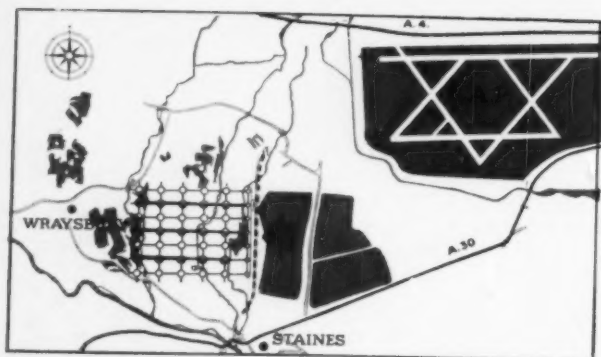
MOTOPIA is a town planned to overcome the unhappy effects of congestion by placing the roads upon the roofs of continuous terraces built in great squares. The ground is a free and continuous landscape, composed of the open-air elements that normally surround the perimeter of a town. In this way, two of the warring elements in human nature, the biological and the mechanical, have been separated. Motopia is quiet, free of petrol fumes, safe for pedestrians and, above all, every home is in close association with trees, grass and water, and attractive natural surroundings.

MOTOPIA—with planned accommodation for 30,000—is equivalent in size and population to the New Towns created since the war. It represents an idea, but to show that it is practical, down to the last detail, it has been related in this study to a particular site—near the Staines Reservoirs in Middlesex. The principle of building a residential landscape could, however, be applied wherever there is a reasonably level site mostly free of existing buildings. Its cost, if built today, would approximate to a present-day design of eighteen-storey-tall blocks of flats occupying the same area and giving the same density.

MOTOPIA is the fourth post-war study prepared by the Glass Age Development Committee, consisting of Jellicoe, Ballantyne and Coleridge, F./A.R.I.B.A., Edward D. Mills, F.R.I.B.A., and Ove Arup and Partners, and convened by Pilkington Brothers Limited.

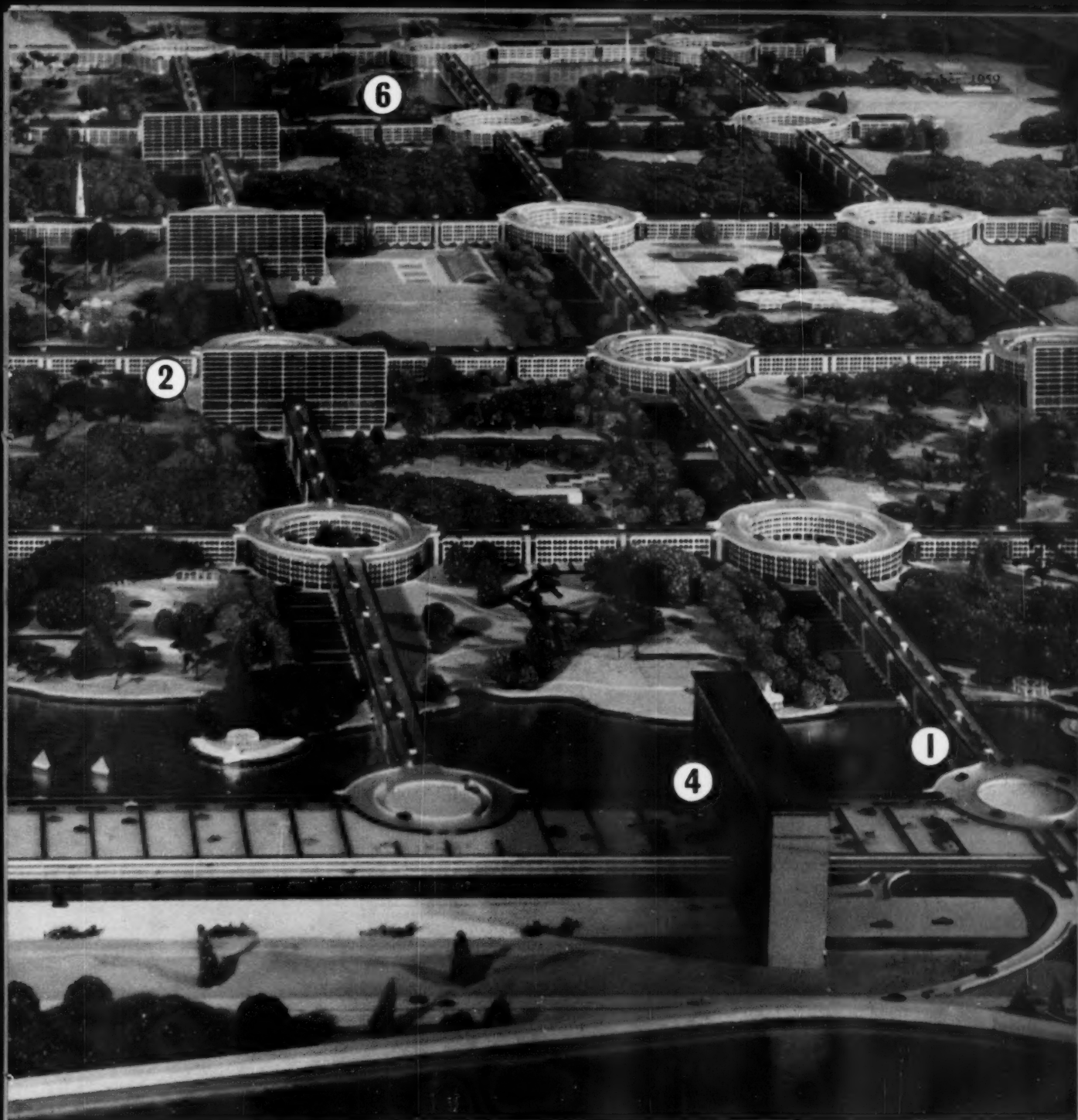
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## Key to main features of MOTOPIA

- 1 THE ROADS—connected with the external road system by a flyover—pass along the roofs in double tracks, with ramps at each of the roundabouts leading to the access roads.
- 2 THE RESIDENTIAL TERRACES consist of ground floor (miscellaneous and covered way); 1st, 2nd and 3rd floors (flats and maisonettes); 4th floor (car park and access road); roof level (motorways). The terraces are broken occasionally by 15-storey flats.



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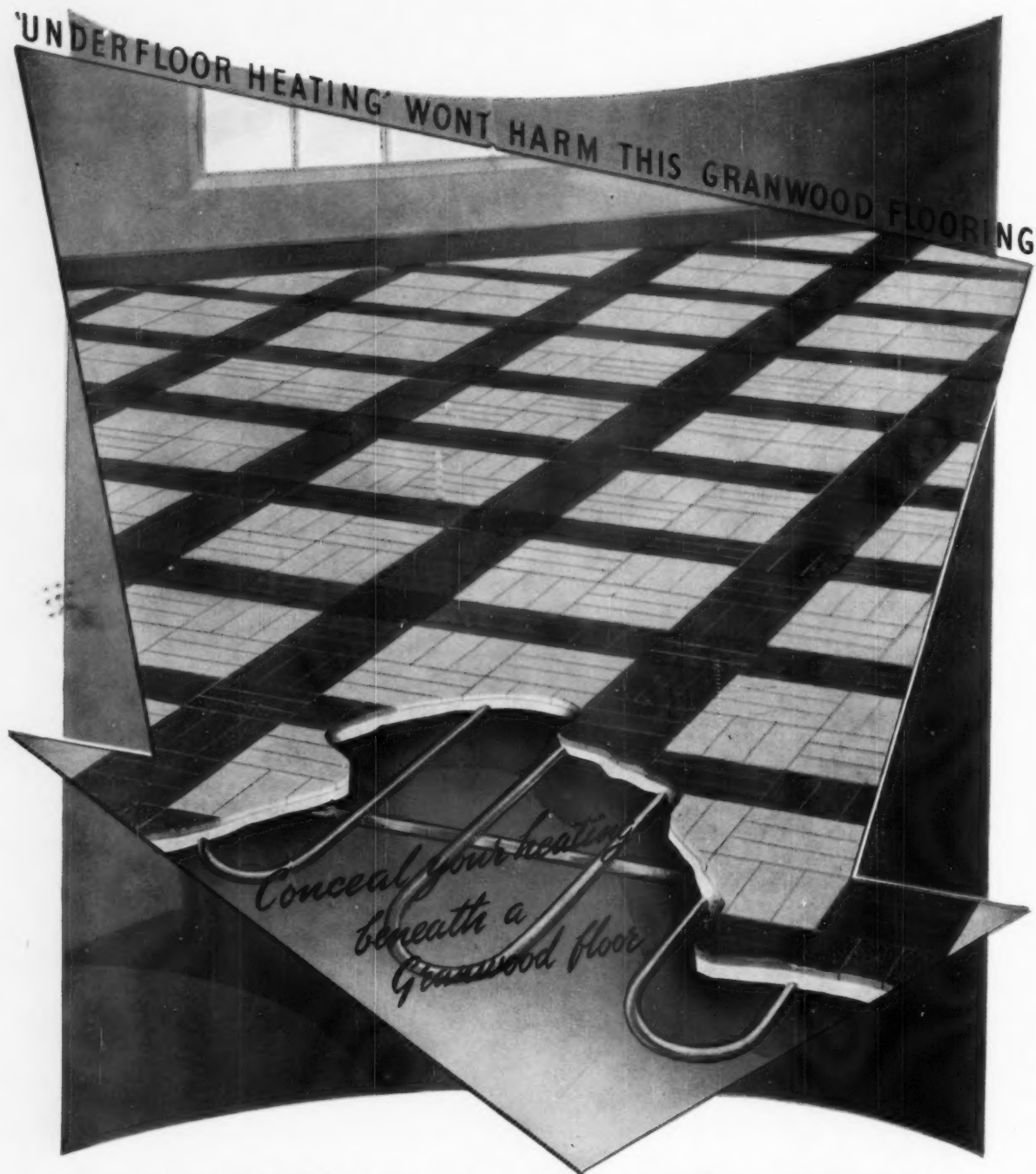
**6** THE LANDSCAPE has utilised existing waste gravel pits to form stretches of water (linked to the Thames) for yachting; with the remainder of the area developed for churches, schools, playing fields, sports clubs, rural scenery including market gardens and allotments, and park and forest areas.

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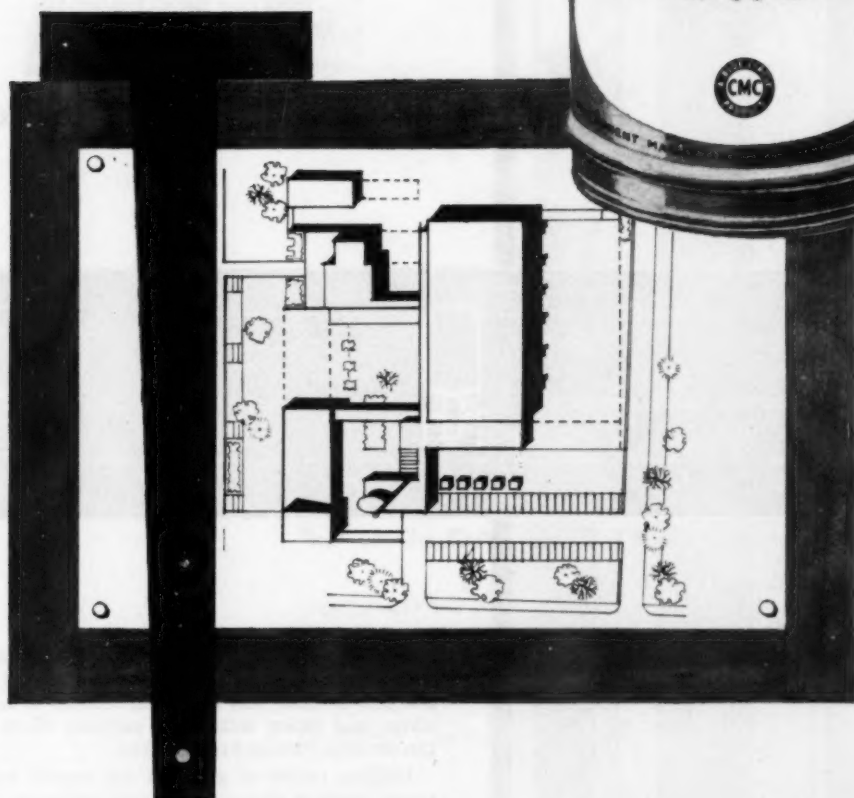
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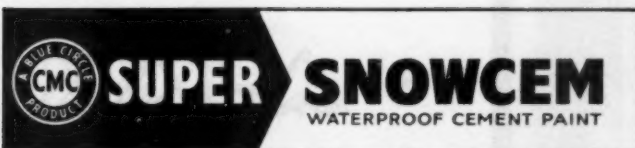


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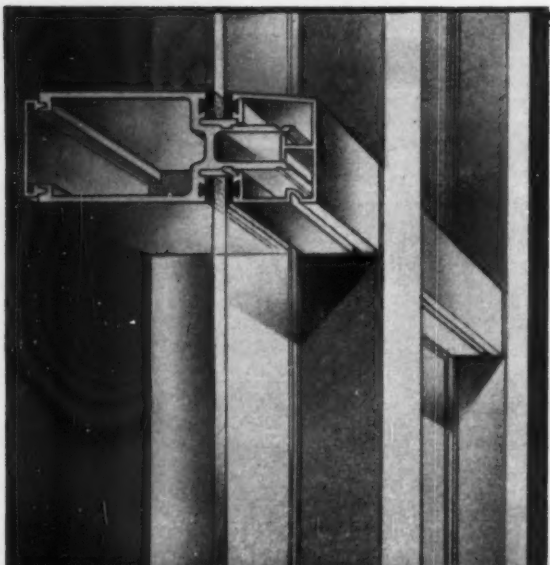
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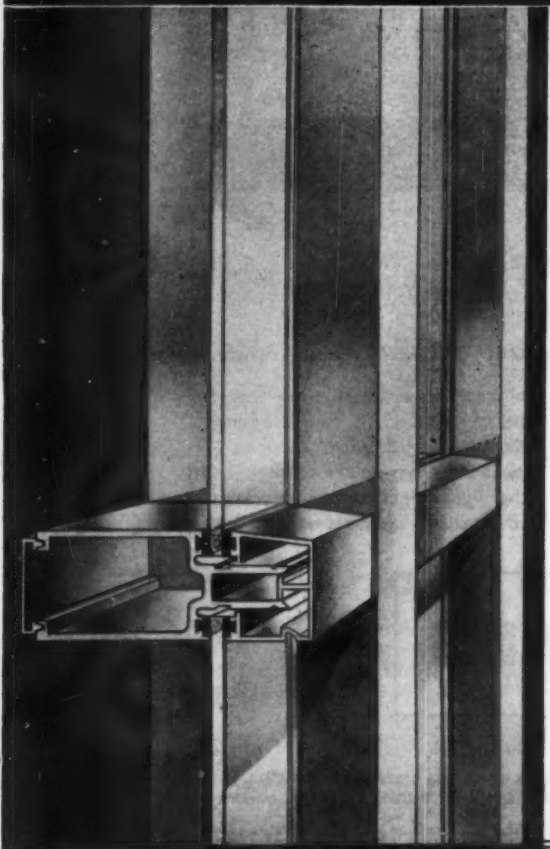
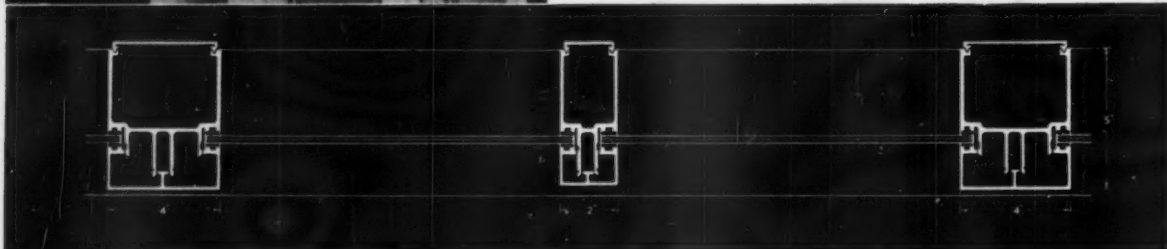
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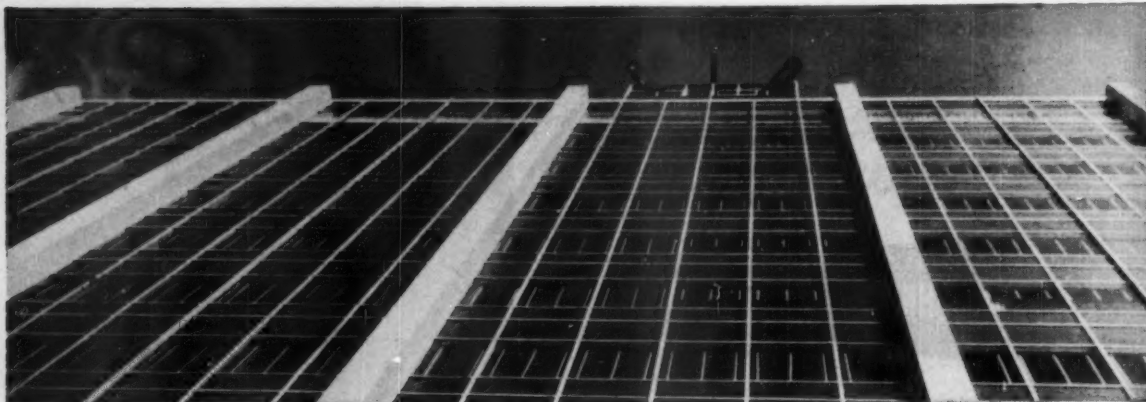
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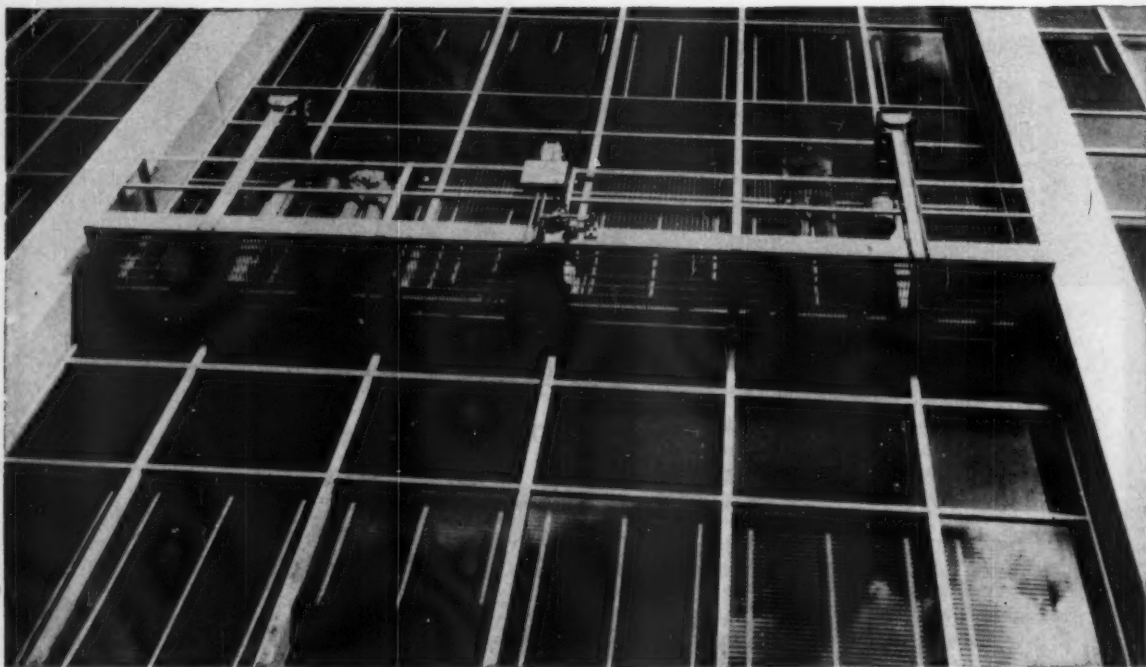
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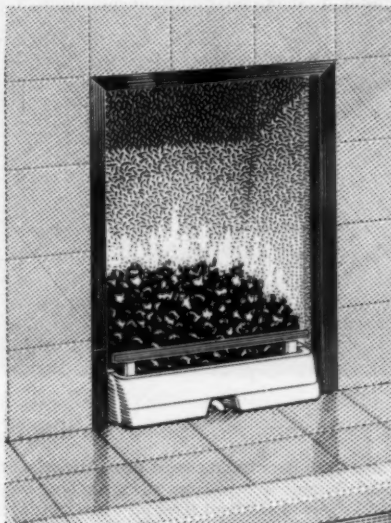
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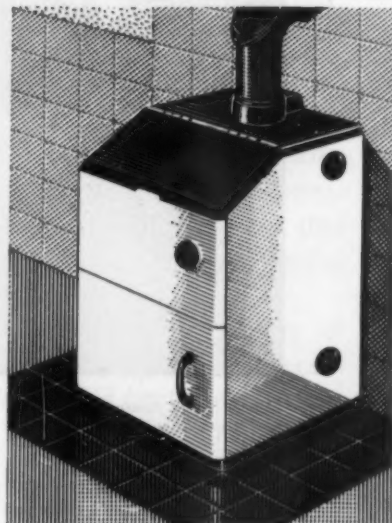
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# THE ARCHITECT & BUILDING NEWS

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## PROFESSIONAL INTEGRITY

THE Council of the R.I.B.A., in releasing their "Reflections on Clause 5 of the Code of Professional Conduct"\*, have started what should be one of the most vigorous controversies that the profession has enjoyed for many years.

Briefly, the question is whether an architect should or should not be a director or principal of a firm carrying on business as estate agents, building contractors, manufacturers of building materials, or in any way trading in land or buildings for profit.

That he should not thus behave has been taken as a matter of course by most R.I.B.A. members; and it is only recently that developments in the building industry have led to doubts whether such a wholesale restriction is wise not only in the interests of the profession itself but also in those of the public it serves.

The pros and cons are clearly stated in the paper, but with a confessed bias towards change "in order to counter (and perhaps disturb) the weight of tradition that is bound to be against it". The problem is how to allow architects to take a leading, instead of a subordinate, part in an integrated building team without detracting from the status of the majority of the profession who would remain independent of such organizations. The solution may lie in a similar formula to that adopted by the Institution of Civil Engineers, who rule that a member may be a con-

sultant paid by fee or be in a commercial enterprise, but must not be both at the same time.

While some such formula might work satisfactorily it will not raise the status or usefulness of the profession. The only thing that will do this is the integrity and quality of the individual architect.

Doctors in the nineteenth century won the respect of their fellows by their rapidly increasing value to the community following on the work of such men as Lister and Pasteur (incidentally, no doctor), and by the fact that most of them were more interested in serving their patients than in their fees.

Architects today have the opportunity of proving that they too can serve the community. The essence of a profession is that its members are more interested in the job than the reward. And the lay public, although they may know little or nothing of the technicalities of building, are quick to sense whether the architects they are dealing with are primarily interested in giving them a good building or in making money. If the first, the profession will be honoured. If the second, it will be treated as just another part of the commercial world.

That is the architect's problem and now is the time for some soul searching and vigorous discussion. We hope readers will send their views to this journal as well as to the R.I.B.A.

\*Pages 295 to 297 in this issue.

## EVENTS AND COMMENTS

### BLOWING MY ALP-HORN

One of the most fascinating stretches of railway in the world is the five-odd miles that separate the north-western limits of the French town of St. Louis from the south-eastern limits of the Swiss town of Basel. St. Louis is a dismal straggling chaos of industrial outrage that might easily be, but for a French flavour to the architecture, Leeds or Stoke. Coarse and clumsy blocks of modern flats rise up amid the waste ground and derelict buildings; the general colour scheme is rust-brown and mud-brown. The train steams through this too-familiar scene, and then, within a couple of minutes, all is magically different. White bauhaus factories carry neon signs in all the best sans-serif types; white or pale-grey blocks of elegant and sophisticated flats stand up amid well-planted and landscaped grounds, each balcony a hanging garden of geraniums. You are in Switzerland, the Shangri-la of Europe, a tiny Tom-Tiddler's ground that has been untouched by war, unravaged by industrial revolution and uncorrupted by what seems to be a pretty general European urge towards ugliness. As you go about Switzerland you must come to the conclusion that the Swiss, for all their rather dull burgherishness, have an instinctive flair for beauty and elegance. There is a completeness about Swiss good taste that makes the whole country like, say, Roehampton L.C.C. estate: traffic signs, lamp-posts, street furniture, office building, spec housing, parks and playgrounds add together in a way astonishing to the eye used to our own visual chaos and slovenliness. Now, in Swiss Fortnight (October 5 to 17), typical aspects of Swiss taste are on view in London, and the contrast is fearsome.

### KEEP IT SIMPLE

I have been doing the rounds of the various exhibitions that make up the Fortnight, which are spread all over the West End, and I do not mind telling you that my dogs could not be worse if I had just climbed the Wetterhorn in bare feet. But I hope I can persuade you that it is worth it. The pivot of Swiss Fortnight is Park Lane House, where there is a general exhibition of clothes, shoes and textiles, watches and precision instruments, cheeses, wines and Anglo-Swiss history. The watches are as spare, elegant and expensive as you could wish and so is the décor round them. Spare and expensive elegance is also the keynote of the clothes and textiles; much subtlety and refinement beautifully displayed. If your mouth waters at this evocation of the Bahnhofstrasse, surely the richest street in Europe, call in to the wine department for a free tasting of Swiss wines: light and smoky in flavour, both the red and the white. After Park Lane House, have your Rolls take you to the Ceylon Tea Centre for a small exhibition of Swiss design for the home. There are domestic fittings in the way of taps, basins and sink units which have an economy of line, a precise elegance that we could well emulate. Settings, ceramics and glassware reflect a taste for straight lines and a certain bauhaus starkness which is tremendously refreshing after too much "contemporary" folksiness in some quarters. Chairs, however, are a little clumsy perhaps in their squareness; the Swiss seem happier the nearer they get to the characteristics of industrial

and technical products. Colour schemes are typical in their sparseness: black and white, greys, accents only of strong colour such as mauve.

The Exhibition of Swiss Industrial Architecture at the R.I.B.A. is a bit thin—just a selection of photographic blow-ups—and is worth seeing only if you happen to be passing down Portland Place. The buildings all have that Swiss quality of spare elegance and fine detailing and finish, but there is nothing madly exciting or trend-starting. My eye accepted a smooth bit of glass and concrete as 1959 before the caption told me it was, in fact, 1929.

### OFF WITH THOSE SERIFS

Sweating bearers in loin cloths now bore me away to the Festival Hall to look at Swiss books, an exhibit organized by the Swiss Booksellers' and Publishers' Association, Zürich. From the point of view of design, the books were a mixed bunch. Some of the academic stuff was as dull as the jackets emanating from the dowdier British publishing houses, but once you got on to the arts or travel, that usual Swiss quality set in. The fineness of Swiss printing is legendary, and in the colour-work in this exhibition you can see it for yourself. In design, there is little whimsy, charm or fruity neo-Victoriana; by and large, geometric abstraction and bold sans-serif faces dominate the book-jackets, as one might expect. If you have not seen them before, look at the spanking volumes on Corb, Richard Neutra, new school and new garden design. There is also a superb photographic tour of Ronchamp, "Ein Tag Mit Ronchamp", with forty-eight photos by Paul and Esther Merkle, text by Robert Stoll, published by Johannes-Verlag, Einsiedeln.

I was going on to look at Swiss prints at the Tate, but was overcome on a glacier just the other side of Vauxhall Bridge. When the St. Bernards found me I was frozen as hard as a cantilevered balcony, babbling about elegance, purity and fine detailing.

### SHUT UP!

The A. & B.N. is, I believe, the first journal to be invited to join the Noise Abatement Society, recently founded by John Connell. Its purpose is "to eliminate all excessive and unnecessary noise from all sources". Anybody who has compared a night in Rome with a night in an Irish country house will know what "excessive" means. The society propose, in the first instance, to make the most of existing laws against noise from motor vehicle exhausts, public music, private radios and gramophones and rag-and-bone men. In the long run the society also hopes that all new buildings will be effectively insulated and that each home be provided with a completely insulated room where you can either be utterly silent or make a colossal racket without disturbing other people. Mr. Connell tells us that the Federation of Civil Engineering Contractors, headed by their chairman, Mr. J. M. Laing, paid the society a visit to discuss noise on sites. The visitors, so Mr. Connell says, promised their co-operation and said they would call a meeting of all other professional associations concerned in building to see what might be done.

The idea of restoring peace to modern urban life must appeal to all of us who do not regard an unsilenced scooter as a symbol of youthful vigour. For noise—mechanical noise—shatters the nerves and even, at certain pitches of intensity, kills. The Noise Abate-

ment Society provides red and white stickers—"QP", quiet, please—to affix to sources of noise. How useful they would have been during the late election.

## HULL DOWN AT HAMPTONS

Hull Traders gave a party at Hamptons, High Street, Kensington, this week to launch their "Time Present" range of fabrics. Paul Reilly did the opening honours with graceful fluency, and there we were, face to face with another wall-full of gay contemporary cottons. There were pastel flowers on white grounds, sprays of almost William-Morris leaves on white grounds; the heart began to sink. However, the "Time Present" range is saved by the work of twenty-four-year-old Shirley Craven, Hull Traders' new design consultant. There are some fine, simple, geometric, abstract patterns intended to be stretched flat over battens along a wall; and a design of Venetian richness, called "Le Bosquet", based loosely (for it is fluid and abstract) on rhododendrons, which would look well in any large room or space. The cottons upon which these designs are printed drape like brocades, because of their weight and substance. Miss Craven, as vivid and handsome as her designs, dilated to me on the horrors of fussiness, which she thought a weakness peculiar to the British; another guest paused to say that the new Swedish Design Centre in Stockholm made our own look pretty dowdy. I walked out into the High Street wondering how much it would cost, at 37s 6d a yard, to curtain the living area of my converted gasholder.

## Letters to the Editor

### Chiswick Flyover

Sir,—Many of your readers may have been as surprised as we were to see in the press, and hear on the radio, the remarks made by Mr. Laing on the subject of the Chiswick Flyover. We would like, with restraint, to put this matter into proper perspective.

For his remarks, Mr. Laing wore two hats. First, he is a main contractor employed by the Ministry of Transport on major contracts and therefore he is hardly in a fair position to comment impartially on our criticism of Ministerial delays and obstructions at Chiswick. Secondly, as president of the Federation of Civil Engineering Contractors, his position is even more invidious, since my company is not a member of the F.C.E.C. and hence he must be embarrassed in assessing our carefully considered factual statements by which we stand in full.

Yours, etc.,

J. E. DAYTON,  
Joint Managing Director,  
Alderton Construction Co. Ltd.

### House Builders' Evidence

Sir,—With reference to your news note, "House-Builders' Evidence on Housing Standards" (A. & B.N., September 30), the Federation of Registered House-Builders also stated in its evidence to the Central Housing Committee's Sub-committee on Housing Standards that some of its members were in favour of greater use of double glazing. Your readers may like to know of the introduction of a new range of standard double-glazed casement windows, which have now been produced and registered under the "EJMA" certification trade mark.

Yours, etc.,

PETER B. ALLNATT,  
Director, The English Joinery  
Manufacturers' Association (Incorporated).



Clothed in early morning mist, the new Shell building still rising to dwarf the L.C.C. County Hall and give a new dominance to the South Bank. Architect: Sir Howard Robertson. Contractor: Sir Robert McAlpine & Sons Ltd.

### Tumpkins Saga: Anarisc

Sir,—May I congratulate you on allowing space for the light relief of the Tumpkins Saga and Anarisc for his happy inspiration in creating it.

I particularly enjoyed his account of George's evening with Irene (23/9/59). I happen to know both George and Irene very well and I do not believe she has nearly finished with him yet about that business of so many architects not being artists at all but merely business men, and not very good ones at that, according to George (or Anarisc?). I believe Irene has gone back to her architect-uncle to get to the bottom of it all. She wants to know how many registered architects are in fact the bad practitioners whom George speaks of, as if there were no others and whom her uncle dismisses lightly as the "cuckoos" of the profession. If there are as many bad ones as George seems to think, then she wants to know what the rest of the profession is doing about it, and if not, then what is George (or Anarisc?) making all the fuss about. They cannot just both go on about each other like that.

I hope Anarisc will let us in on the next episode in the Quantity Surveyor Woos Architect's Niece story.

Yours, etc.,

MARY HADDOCK.

Site office with a new elegance, poised delicately on the edge of Haymarket and overlooking early excavation work for the new New Zealand House. Architects: Robert Matthew and Johnson-Marshall. Contractors: Holland & Hannen and Cubitts Ltd.



## NEWS

### New Chief Technical Planner

Mr. L. P. Ellicott, C.B.E., A.R.I.B.A., M.T.P.I., deputy chief technical planner of the Ministry of Housing and Local Government, has been appointed chief technical planner, in succession to Mr. E. G. S. Elliott, O.B.E., M.A., M.T.P.I. Mr. Elliott, who is retiring from this post for reasons of health, will continue to serve the department in a part-time capacity.

### Rome Scholarship : Revised Regulations

The Faculty of Architecture of the British School at Rome have had under review the conditions of the Rome Scholarship in Architecture, funds for which are provided by the Royal Institute of British Architects.

The Faculty recognize that, although many young architects would wish to avail themselves of the benefit of a period of study and travel in Italy and the Mediterranean area, the time now needed to qualify for their profession may deter many students from entering a competition of long duration, followed by two years' further study abroad.

The Faculty have therefore revised the regulations in two important particulars: (1) The competition has been shortened and it may be taken soon after a candidate has completed his final School (or final R.I.B.A.) examination. The winner will thus be able to go to Italy in the late autumn of the year of his graduation. (2) The Rome Scholar will not be required to hold the Scholarship for more than one year, although it will be open to him to request a second year if he so desires. This extension, if sought, will normally be granted if the Faculty are satisfied with the use the Scholar is making of his time.

The Faculty lays down no specific course of study for Rome Scholars beyond stipulating that the British School at Rome must be their base for travel and study and that their programme must be approved by the Faculty. It remains the purpose of the Scholarship to provide young architects with an opportunity to examine at first hand the work of the great masters of all periods, but Rome Scholars are not precluded from interesting themselves also in modern Italian developments, many of which illustrate strikingly the influence of tradition and environment on a living architecture.

The revised conditions may be obtained from the Honorary General Secretary, British School at Rome, 1 Lowther Gardens, Exhibition Road, London, S.W.7.

### Quinquennial Review: County of London Development Plan

At a special meeting of the London County Council today the Town Planning Committee will report on their proposals for the review of the County of London Development Plan, now the subject of a quinquennial review. This meeting will be the first stage of the public discussion of these proposals and the Council will be asked to approve them for the purpose of formal consultations with the City Corporation and the metropolitan boroughs.

The report says: "The two major planning problems of London are congestion at the centre and the factors tending to overspill of population". The main intentions of the quinquennial review are therefore directed to restraining the growth of office accommodation, particularly in the West End, encouraging some limited offices in suburban centres, the provision of dwellings in the central area, revitalizing some middle belt areas by comprehensive redevelopment and dealing with the overspill resulting from this and other causes. In addition, the aim is to improve roads and encourage separation of pedestrian and vehicular traffic wherever possible.

The report says that in recent years the number of persons employed in central London has increased by at least



The completed Pirelli building in Milan. Architect: Gio Ponti

15,000 a year. The demand for new offices does not appear to be satisfied yet. Steps have already been taken to limit the bulk of offices in the Central Area, and further restrictions are being considered for Finsbury, Shoreditch and South Bank. Variations in zoning in the Victoria, Marylebone Road and Bloomsbury areas will help to reduce potential office development. In the Central West End zone, the Council will need to be satisfied that the development is appropriate, having regard to this policy. The Committee consider that some very limited office development should be encouraged in the perimeter areas of the county itself to relieve the daily commuting of workers. Certain small new office zones will be introduced. With regard to Mayfair the policy envisages extension of temporary permissions for offices until 1990 in premises which are not reasonably adaptable for residential occupation of various kinds.

### Factory Development

The committee say that, although factory employment fell by more than 18,000 during 1954-57, the county is still over-industrialized, with 121 jobs for every 100 workers. About a third of industry is still on land zoned for other purposes and the Council is prepared to spend £500,000 a year to buy out this non-conforming industry and free the land for housing, open spaces and schools. This would, in effect, reduce land zoned for industry by 66 acres and for commerce (warehouses and storage) by 91 acres.

### Housing Needs

Population movements have resulted in smaller households but more of them. In 1956 the estimated need was for 126,000 additional dwellings: by 1972 this figure is expected to have almost doubled (231,000).

When displacement of population from areas redeveloped and slum clearance is taken into account the total requirement is estimated at 380,500 additional dwellings. New housing should cater for 144,000 households and conversion of existing premises may cope with 20,000 more, but there will still be 216,500 households whose needs cannot be met within the county. It is expected that this figure will reduce to 50,500, allowing for those who would leave by private arrangement or go to new towns.

The committee are satisfied with the main principles in the plan—which provides for four main density zones

of 136, 100 and 70 persons an acre, and 200 an acre at the centre. They propose however: (1) new zones of 170 persons an acre in areas of Earl's Court, Paddington, St. Marylebone, and the Elephant and Castle; (2) higher than zoned densities in areas of comprehensive redevelopment and where flats adjacent to local town centres would be a social asset.

### Educational Buildings

Schools and other educational establishments, new or extended, have 357 sites allocated and the University of London has asked for additional sites for extensions to colleges and medical schools. By 1960 there will be about 521 acres of new public open spaces—many of these being first instalments of bigger things to come. This figure will be increased by 650 acres by 1972, including 16 acres in the Metropolitan cattle market area of Islington.

### Comprehensive Development

New comprehensive development areas are proposed at Knightsbridge Green, North-west Stepney, West Bethnal Green, Lambeth Walk and Kensal New Town. Kensington and Paddington borough councils have been asked to deal with the residential zones: the L.C.C. will provide schools, open spaces, and help re-site industry.

The report concludes with a review of planning standards and principles which are to be explained in the County Planning Report.

### C.U.C. Make Recommendations on Housing Standards

Top priorities for future homes were listed by the Coal Utilisation Council in its evidence to the sub-committee of the Central Housing Advisory Committee on housing standards. Their points were: better fuel stores, at least two flues, better heating appliances, central heating, and lining of cooker and boiler flues, in that order.

The council suggest a minimum storage capacity of 30 sq ft, for three-quarters of a ton of coal and the same amount of another fuel. Two flues should be supplied to permit continuous heating in other rooms as well as the main one—a necessity where old people were concerned, it said.

The demand for whole-house heating was likely to grow where the wife was working during the day and especially where there were children at home. The rather higher capital and running costs would be accepted, the council thought, provided that the heating, and therefore its cost, were under the control of the householder.

The council also thought that there would be a lowering of heating standards in the future where only electric heating was available, but they expect to see greater and more evenly distributed heating; an increasing use of solid smokeless fuels; and a decrease in the use of individual solid fuel grates in flats because of the delivery and ash disposal problems.

### Aluminium Curtain Walling Exhibition

A comprehensive array of aluminum curtain walling systems are on exhibition at the Building Centre, London, until October 24. It consists of 30 uniform panels carrying full-size sections of each of the 15 British curtain walling systems represented, and displaying section drawings, brief factual statements, and photographs of existing installations. Recent films will be shown in conjunction with the exhibition on Friday, October 16, at 12.45 p.m. The exhibition is open from 9.30 a.m. until 5 p.m. on weekdays—9.30 a.m. until 1 p.m. Saturdays.

### Professional Announcement

Barrie Meekins, A.R.I.C.S., A.I.A.S., A.I.A.R.B., chartered quantity surveyor, has transferred his practice to 63 Upper Park Road, Hampstead, London, N.W.3 (telephone: PRImrose 1769).

## R.I.B.A. Council Meeting: 6.10.59

Mr. Basil Spence, the president, on the day following the meeting, held a conference at which information was given to the press.

### C. D. Spragg, Honorary Associate

The Council, unanimously, have approved the election of C. D. Spragg, C.B.E., the former R.I.B.A. secretary, as an honorary associate; we offer him our warmest congratulations.

### The President's Bust

The bust of Basil Spence, which the late Sir Jacob Epstein was commissioned to carry out, instead of a portrait, is completed and was the artist's last work. The president was enthusiastic about it and said he was deeply impressed at the way the great artist worked. The artist was completely lost in his subject, mixed his own clay, and started with a small piece the size of an apple on a somewhat rickety stand. The artist only made one measurement and completed the work in ten days, the sitter (with bared torso) posing every morning.

### Motorways

There is to be a further joint meeting of the Civil Engineers and the Royal Institute, at the R.I.B.A., on March 15, 1960. The subject will be "The Impact of Motorways on Cities". Frederick Gibberd will put the architect's points of view. The meeting will discuss the problems and not solutions to the problems.

### Committee Structure

The Committee structure of the R.I.B.A. is being revised, with the object of having smaller committees. One of the committees to be cut down in size is the Board of Architectural Education. A report on the subject will appear in the November issue of the R.I.B.A. Journal, and will be released to the technical press at the same time, with a list of members of all the committees.

*Model of the new headquarters of the Civil Service Clerical Association in Balham. The building has approximately 30,000 sq ft of office space, and was designed by architects Clyde Young & Bernard Engle. The general contractors are Tersons Ltd*



## NEWS CONTINUED

### Architectural Competitions

A task of one of the new committees, the president told the press, was to consider the Royal Institute's attitude to architectural competitions. The Council thought there should be more competitions. It was going to ask the committee to consider particularly the following items: assessor's reports; types of building suitable for competitions; the importance of conditions and their tightening up; the production of some kind of leaflet about the promotion of competitions; the different types of competition (two stage, etc.), and so on; the definition of technical qualifications for majorities among assessors.

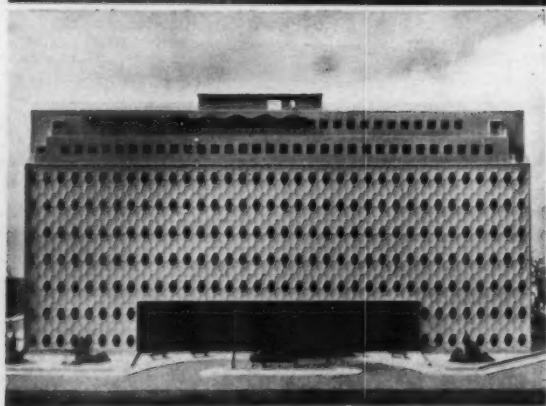
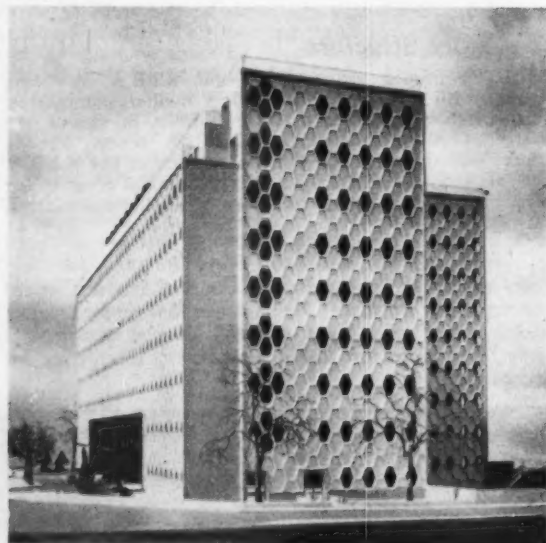
### The Oxford Conference

The Council have approved some of the conference's recommendations and have agreed to the appointment of a committee to make proposals to implement certain suggestions contained in the report. The report on the conference is to be released early in November, when we shall have more to say.

### Constitutional Committee Reforms

After some discussion, the Council agreed that there should be a meeting of all the presidents of the allied

*The proposed Furniture Display Centre to be built near Old Street in the City of London for the London Furniture Manufacturers' Association. It is proposed that manufacturers should take space in the centre so that all products of the industry may be shown under one roof. Building begins in January and will be completed by 1962. Architect: George Watt*



societies to consider these three points: (1) That the regional representatives on the Council should be directly elected by the R.I.B.A. members in each area (a point on which a Council vote taken at the meeting was narrowly in favour); (2) That provided the Allied Societies' Council is elected by postal ballot of all the members resident in its area, the Allied Societies' Council shall be free to nominate from its elected Council members its representatives on the R.I.B.A. Council; (3) Whether the proportion of regionally elected representatives on the Council, and nationally elected representatives should be fifty-fifty, as recommended by the Constitutional Committee, or two-thirds from allied societies, as proposed by them. The R.I.B.A. Council will not express its views on these three points until the presidents have met and reported back to it.

### I.U.A. Conference, 1961

The I.U.A. Conference in 1961 will be held in London, and the Council have plans for inviting world-famous names to contribute papers. The conference will be held in the first week in July. The theme will be: "New Techniques and Materials and their Impact on Architecture". This theme will be broken down under these headings: (a) An historical survey of architectural change, brought about by changes in techniques and materials; (b) The influence of reinforced concrete on architecture; (c) The impact on architecture of industrialized building methods.

## Coming Events

### *The Reinforced Concrete Association*

October 14, at 6 p.m. "Cold Weather Concreting", by N. M. Brydon, M.B.E., B.Sc., M.I.C.E., M.I.STRUCT.E. At 11 Upper Belgrave Street, S.W.1.

### *The Architectural Association*

October 14, at 6.15 p.m. "Landscape Architecture on Rocks and Sand", by George Carpenter. At 34 Bedford Square, W.C.1.

### *B.B.C.*

October 16, at 10.30 to 11 p.m. Home Service. A double profile of Mies van der Rohe and the late Frank Lloyd Wright, by Peter Smithson.

October 20, at 7 p.m. Network Three. Does the future of the building industry lie in the "All-in Service", in which all of the professional services are supplied by the contracting company? This will be discussed by Grenfell Baines, A.R.I.B.A., H. F. R. Catherwood and Frank Byers.

### *Royal Institute of British Architects*

October 19, at 6 p.m. "Vitruvius on the Nature of Architecture", by W. A. Eden, M.A., F.S.A.(F). At 66 Portland Place, W.1.

### *The Housing Centre Trust*

October 20, at 6 p.m. A report on the Housing Centre Continental Tour for 1959 to Denmark. Slides and a film will be shown by Brian Bunch. At 13 Suffolk Street, Haymarket, S.W.1.

### *The Royal Institution of Chartered Surveyors*

October 20, at 5.45 p.m. Land Surveyors' General Meeting. "Underground Surveying in London", by H. J. Donovan.

October 21, at 6 p.m. Quantity Surveyors' General Meeting. Discussion, "Cost Planning: What information does the architect need from the quantity surveyor?" to be opened by A. B. Waters, M.B.E., G.M., F.R.I.B.A. At 12 Great George Street, Parliament Square, S.W.1.

### *Cement and Concrete Association*

October 20, at 5.30 p.m. "The development of Gatwick Airport", by F. S. Snow and N. J. Payne. At the Institution of Civil Engineers, Great George Street, S.W.1.

## R.I.B.A. CODE OF PROFESSIONAL PRACTICE

## THE ARCHITECT'S PLACE IN THE BUILDING INDUSTRY

The R.I.B.A. Council have released for publication and wide discussion within the profession the text of the paper published below. The paper's origin springs from three sources: (a) The R.I.B.A. report on "The Employment of Architects on the Salaried Staffs of Building Contractors" drew attention to the anomalous position of the architect who "may be employed in the industry in a subordinate capacity, but not in a controlling one, since he is forbidden to be a director". Mr. Richard Sheppard's Ad Hoc Committee was asked to look into the question further, and this review, although not a formal report, is broadly the result of their background work. (b) The paper will be seen to show a bias in favour of a change in the Code. This is deliberate, in order to counter (and perhaps disturb) the weight of tradition that is bound to be against it. In no sense, however, does this imply a recommendation from the Council, who are maintaining an open mind until the profession's views are better known. (c) Of itself a change in the Code is perhaps not crucial, and certainly not a panacea. Nobody suggests that it would be the answer overnight to the all-in service challenge. The subject does, however, serve to focus attention on a central dilemma of greater importance: Whether to regard Architecture as an integral part of Building and act accordingly; or sharpen the distinction between them, widening the gulf between the artist-consultant on the one hand, and the commercial constructor on the other. Whether, if the "separatist" course is chosen, that will restore whatever dignity, prestige and influence the profession is thought to have lost, or merely invite the modern world of big business and high finance to by-pass the profession and to let it quietly fade. Whether in the times ahead one can maintain Architecture balanced on the razor edge between an Art and a Profession, inevitably lacking some freedoms of the one, yet foregoing many opportunities of the other. Whether, therefore, in professional conduct matters to go for a brief Code, allowing maximum latitude, and simply expressed in terms of broad principle but rigorously interpreted and enforced; or to retain a detailed Code that attempts to identify and proscribe all irregular activities that could be harmful to Architecture.\*

THESE notes are concerned with Clause 5 of the Code of Professional Conduct, which forbids an architect to become a director of a firm associated with the building industry. The aim is to identify some of the reasons for this ruling, to consider their validity in the context of modern practice and to assess the benefits, if any, that might accrue if the Clause were to be modified.

2. Clause 5 in full reads:—

(a) A member or student may be a director of any company (except such companies as specified in Clause 5 (b)) including a building society registered under the Building Societies' Acts, the Building Centre, London, the Building Centre, Scotland and the Engineering Centre, Scotland; but his professional affix may not appear on the note-paper of the company.

(b) A member or student must not be a director of a firm or company carrying on business as auctioneers or house and estate agents or trading in materials used in or whose activities are otherwise connected with the building industry or trading in land or buildings for profit.

(c) A member or student must not carry on or act as principal, partner or manager of any firm carrying on any of the trades or businesses specified in Clause 5(b).

## History of Clause 5

3. In the Kalendar of 1910-11, there appeared for the first time in the then very short Code "A member, having any ownership in any building material, device or invention proposed to be used on work for which he is architect, shall inform his employer of the fact before its use". This stood, with minor variations, for the next 25 years. In 1920 the urge for stronger measures appears, for a further clause was added stating that the profession was "incompatible with the business of a contractor, manufacturer, dealer in (or agent for) materials used in buildings". This, however, was deleted two years later and no further significant change occurred until 1935 when the present law forbidding directorships was introduced (with effect from 1937). The Practice Committee at the time cited as a typical source of worry the case of two architects inquiring whether they could become directors of a firm making and erecting steelwork. The answer had

to be Yes, "but they are not free to specify this steelwork in any contract and thus lose that independence which an architect must have in administering contracts".

4. This brings one to the familiar arguments behind the Clause as it now stands:—

(a) The architect must remain an independent practitioner, free to prescribe the materials or form of construction which in his professional judgment best suit the case. Neither loyalty to a given concern nor considerations of personal profit should be allowed to colour this judgment; and client and public must be given no cause to think that they do. A professional man is paid by predetermined fee which, once agreed, is forgotten, so that he may concentrate without distraction upon the discharge of his professional duties.

(b) The architect is primarily concerned to create beautiful, efficient and soundly constructed buildings. The contractor is primarily concerned to make a profit. The two interests are incompatible, and to mix them is to subjugate Art and comeliness to expediences of cost, profit and technical convenience.

5. It is possible that a third reason may be found to stem from habits of thought which have their roots in the past and which, where they exist, are no less strong for being subconscious. The modern architect has aristocratic origins in those Renaissance men of taste and fashion who toured Italy and sought to bring back something of her artistic inspiration. They returned with highly sophisticated theories of design, not easily studied outside Italy and beyond the intellectual grasp of most homely master builders. These designs demanded for their execution that craftsmen, familiar enough with native conventions in design, should forego invention and merely carry out the instructions of a single controlling mind. Thus from the start there occurred a gap in status between architect and builder born of a sharp difference in birth, social accomplishment and breadth of education.

6. In the nineteenth century, the Romantic Movement, the Industrial Revolution, Victorian notions of professionalism and of social strata must all have combined to harden these differences into a settled

\*Readers' comments will be welcome, and will be considered for publication in "Letters to the Editor"

## THE ARCHITECT'S PLACE IN THE BUILDING INDUSTRY

pattern. The increasingly grimy townscape and the mundane traffic of living was no medium for a man conscious of his own aesthetic sensibilities. If "trade" had always been a little vulgar and too overtly intent upon a profit, that was acutely so now. It was thus scarcely thinkable that architect and builder, so different in background, taste and education, should associate in the same enterprise.

7. Nowadays these notions will be dismissed as outmoded and therefore irrelevant, and so to all appearances they are. But as legacies of history they may still be caught lingering around the word "commercial", rendering it disreputable and generally colouring one's thinking. Not that it may not be perfectly legitimate to regard trade and profit as both disreputable and vulgar; but it would be a pity if that kind of emotional irrelevance were to cloud one's judgment of whether Clause 5 is or is not a logical Clause, essential to the profession's well-being.

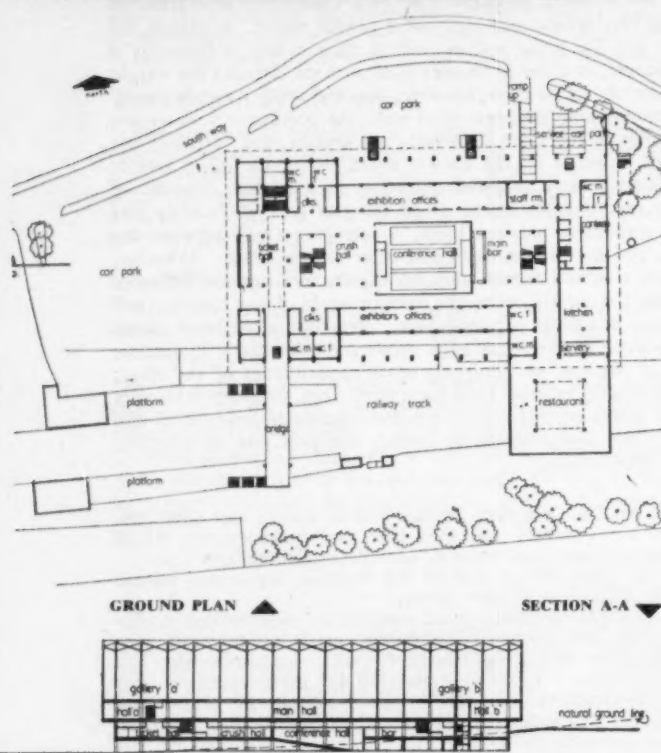
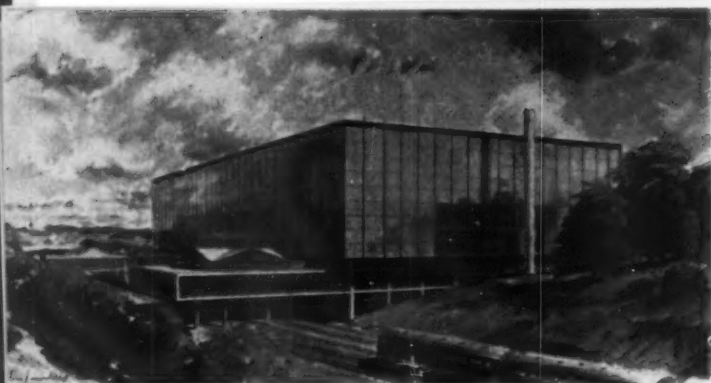
Metaphysics aside, however, there remain the two solid arguments in 4 above, which for convenience are now labelled integrity and design.

### Integrity

8. This may be the central argument for retaining Clause 5. The fear is that the architect will lose his independent and impartial position, with a corresponding loss of professional integrity and, no less important, the appearance of having done so. That being a director could, in the wrong man, imperil his integrity is beyond doubt. The question is whether it would strain integrity so much more than would many other activities that a special clause is needed to forbid it. It may be that the strain upon professional integrity that would face an architect-director is only one of very many, and more common, strains already inherent in normal practice.

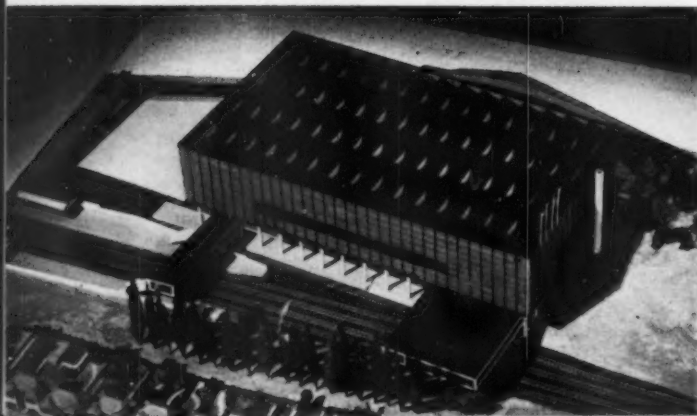
9. There is for instance the familiar charge that the architect has a vested interest in high costs because his fee is calculated as a percentage of the final cost. Less obviously, any principal in private practice must be faced a dozen times a month with issues which professional integrity alone will cause him to resolve with honour to himself and justice to his client. It cannot, for example, be true that every architect puts into every building the maximum work that is possible, or he would be out of business. Since a primary duty to his client as well as to himself is to stay in business, he must have some idea, even subconsciously, of the margin between his expenses and the anticipated fee which he aims to "make" as profit. Thus he is bound to decide at some point that further work is not practicable whatever the ultimate in perfection might seem to demand. Expressed another way, the less work an architect can put into a project consistent with not being found out, the greater profit he will make. That he does not skimp in this way is due to artistic integrity *vis à vis* the building and moral integrity *vis à vis* his client. These are precisely the attitudes the Code aims to promote; and once having prescribed them in unequivocal terms for universal application, it may not be practicable to specify too exactly how they apply in given circumstances. To do so is to risk singling out for condemnation one set of conditions, which, if allowed, might lead to abuse, while ignoring a host of others which already and no less certainly can do so too.

10. Then a director (especially if full-time) of a public company is more often than not paid by fixed fee or a salary that does not vary directly in accordance with the company's prosperity. To become one is therefore less likely to lead to corruption than to hold substantial shares, whose value should certainly reflect directly the company's progress. Yet, since nobody can be forced to declare what shares he holds, nothing specifically is said about shares in the R.I.B.A. Code.



Exhibition Centres Ltd. propose to construct an exhibition hall for medium-sized exhibitions, for which at present there is no suitable accommodation in the London area. The total exhibition floor area of 129,000 sq ft—compared with about 500,000 sq ft at Earl's Court and Olympia—may be subdivided into areas of about 110,000, 87,000, 50,000, 38,000 and 19,000 sq ft. The hall is raised clear of the ground on concrete columns, on a site near Wembley Hill station, north of the railway. Architects: Misha Black, Alexander Gibson, Philip Lucey, all of Design Research Unit

### PROPOSED WEMBLEY EXHIBITION HALL



11. Again, the Code allows an architect to be consultant to a firm manufacturing building materials. Is it realistic to regard him as having no personal or financial interest in advancing that company's prosperity merely because he is paid by fee and not by commission? Instead of a commission, the directors might from time to time offer to "re-negotiate" the basis of his remuneration in consideration of his close attention to their interests. This seems a distinction without very much difference.

### Design

12. This is the second obstacle—the fear that architect-directors would yield to commercial pressures, and good design would be submerged.

13. Could it fairly be maintained, however, that where contractors at present do their own designing, their salaried architects are so ground down by commercial pressures that appalling design consistently results? Is it not rather that in these circumstances *superlative* design seldom results—as for that matter it seldom results anywhere else? The difficulty perhaps is that architects, to their credit, yearn for the superlative, whereas good builders and their direct clients will be mostly content with the thoroughly adequate.

14. It may not be to the good of the profession, however, to organize it as if the superlative were likely to happen daily and Corbusiers abounded: to allow in fact the best to be the enemy of the good by implying that as a masterpiece is unlikely to result when contractors do their own designs, we are not interested in seeing their work raised to the highest level possible. This is what in effect the profession does say, for to allow "the leader of the building team" to be a subordinate employee only is practically to guarantee a subordinate standing also for architecture in the company's policies. Clause 5 ensures that if the salaried architect is too successful and therefore potentially influential in deepening a builder's understanding of what makes for good architecture, he is thrown out for unprofessional conduct. It is not as if the profession was likely thereby to stop builders doing their own designs. They always have done some since earliest times and, short of statutory prevention, it is only realistic to assume they always will.

15. It might, long ago, have been a logical, defensible policy to decree that, like quantity surveyors, architects should not be employed at any level whatever within building companies. As things stand, architects are in, and an R.I.B.A. Report on the subject (August 1958 JOURNAL) makes it clear that it would now be impracticable to attempt to weed them out, assuming one wanted to.

16. It would, no doubt, be right to fear for architecture, and particularly for the chances of any epoch-making break-through, if a change in the Code resulted universally in a total integration of architect and builder. Nobody, however, seriously suggests that either party would want full integration to occur. For the architect, it would essentially be an alternative (and a limited one at that) to the present range of free-paid and salaried practice, not a substitute for it. Some six per cent of the profession are in industry and commerce as a whole; perhaps one or two per cent are in contracting firms. A landslide seems unlikely.

### Possible Advantages of Amending the Code

17. This paper has dwelt primarily upon the reasons for Clause 5 and some of the arguments surrounding it. Clearly, however, no changes are worth making if they merely satisfy logic and fail to bring tangible advantages that outweigh the drawbacks. Accordingly, limiting consideration to building contracting companies only, some possible merits in allowing architects to become directors are briefly tabulated:—

(a) A change should bring into the counsels of the R.I.B.A. and therefore into the thinking of the profession a keener business sense, and a fuller understanding of

costs and technology as seen from the contractor's standpoint—with perhaps some significant consequences for architectural education.

(b) Much is said and written about the effect upon design of modern complex technology; of the resulting growth in negotiated contracts; and of the general need for architect and builder to draw closer together. To allow the architect to accept a directorship with a contractor (as an alternative, not an addition, to his existing form of practice) would be an experiment in co-operation which would not be irrevocable and might be profitable. Such experiments would have the merit that if some new, satisfactory pattern is to evolve over the years in the building industry, the profession would be in the van of the movement, rather than appearing to drag its feet.

(c) If the right men were recruited as architect-directors, their performance might help to counter sweeping and ill-informed assumptions among the public that architects know and care little for the mundane issues in building or the proper conservation of their clients' money. Architect-directors would in fact be no more efficient and cost-conscious than leading members of the profession already are, but their existence could raise respect for the profession among a "nation of shopkeepers" which still values sturdy commonsense well above aesthetics.

(d) It is scarcely fair to architects already in contracting firms to make claims about leadership of the building team and then to deny them the chance to achieve their natural goal.

(e) The architect-director could become an outpost among building contractors, leading them to a clearer understanding of what architecture is about, improving the quality of speculative building and in particular interpreting the schemes of private architects.

(f) At a time when many private architects are conscious of a contracting range of work for them, it would provide stimulus and encouragement if the scope were widened by allowing those with a bent for business the right to exercise it.

### Possible Formulae for Changing the Code

18. It has seemed convenient to concentrate on building contractors; but before any amending legislation one would need to think over all the other fields of work which architects might enter if the present law were merely rescinded without limiting conditions.

Many possibilities will at once occur to practising architects, but the more common variations might be: Architects who would form their own building company so as to provide an all-in service (presumably not unlike Nervi); accept directorships with existing building contractors; see the need for some middleman service such as Intercon provide and seek to meet it; deal in real estate; become directors (probably part-time) of firms making building materials; and set up some ancillary services to the architectural profession on a commercial basis.

For some of these (if they are to be admissible activities at all) the principle of the frankly declared interest that obtained from 1910 to 1935 may be felt to afford enough safeguards. On the other hand, it may be that a clearer principle less open to abuse is that adopted by the Institution of Civil Engineers, who simply rule that a member may act as a private consultant, paid by fee, or be in a commercial enterprise, but on no account must he be in both simultaneously.

19. Either ruling would have its hazards for some of the categories listed, but they may not be so acute as to justify making no change at all. It must always be difficult in any Code of Professional Conduct, having enunciated general principles, to know how far to spell them out in terms of practical situations. No form of words in fact can prevent a man violating the spirit of the Code if he is intent upon doing so. It is therefore important periodically to see that the words used to get as near as may be to an unattainable end have not inadvertently placed a disproportionate restriction upon members and their livelihood, to the ultimate detriment of architecture.

## PUBS TODAY

*This feature illustrates four post-war public houses and photos of three other new pubs. Two architects, who have designed houses illustrated, have kindly written articles about public house design in general, and these form signed introductions*

THE magistrate describes a pub as a "public house"—the brewers call it a "house"—to the Englishman it is a village inn, a pub or more affectionately—"the local", and as such it holds a very warm place in the hearts of most of us. For centuries it has been at once a landmark, a meeting place and a resting place—in fact a social centre unlike any other in the world.

Such a unique architectural problem is a challenge, and most architects would like to exercise their skill in designing and building at least one. Unfortunately, few private architects now have this opportunity. Since the war, brewers in common with many other large organizations have set up their own architectural departments.

The obvious advantage of this system to the brewer is that such specialists as these would never make a technical error, like running the beer pipes and the hot water pipes in the same duct! And, of course, they know all the short cuts to every problem and have all the licensing laws at their finger tips.

A critical examination of the older popular pubs reveals that their popularity lies in the fact that while possessing the essential but elusive "pub atmosphere" they are quite individual in character; always human and understandable.

A sobering thought for the architects is, that despite his best endeavour, he can only provide the bones of a potentially popular pub. Location plays a very large part. An architecturally mediocre pub by a stone bridge on a grassy bank in a nook of the Thames can be a certain winner; especially, and most important of all, if the publican embodies all that is friendly and jovial, witty and diplomatic. In the end the publican makes the pub what it is.

It is sometimes forgotten that, strictly, a pub is a house—a public one. Many old pubs were adaptations of ordinary domestic houses, domestic in appearance and domestic in scale.

Since the war, the motor-car and the increasing popularity of bottled beer over draught beer have, in their different ways, affected planning. Many pubs have changed character because a sea of tarmac now surrounds them, robbing them of their gardens to make way for car parking. Not always kept quite out of sight are the crates and empties awaiting collection; the crates which replace many of the barrels in the cellar, and the bottles the old familiar pumps on the counter.



Detail from Hogarth's "Noon", showing eighteenth-century tavern

The "Old Blue Boar", Holborn, a drawing made  
about 1850

*The village inn, the dear old inn,  
So ancient, clean and free from sin,  
True centre of our rural life  
Where Hodge sits down beside his wife  
And talks of Marx and nuclear fission  
With all a rustic's intuition.  
Ah, more than church or school or hall,  
The village inn's the heart of all.*

from "The Village Inn".  
JOHN BETJEMAN.



A problem is created also by the large brewer's drays which make regular visits and require just a bit more tarmac round the back for deliveries. But these considerations should not be allowed to dominate the scene.

Living accommodation for the publican and his family is a different kind of problem. It must be private and yet easily accessible from the servery so that reinforcements can be quickly summoned. As a single-storey annex to the pub, direct and satisfactory circulation between the servery and the house is sometimes difficult to achieve. As a flat on the first floor the circulation is good, but the problem is sometimes of too little on top of too much.

In new pubs there is a tendency to provide insufficient accommodation for the publican, who frequently has a young family.

It is obviously essential to plan for the easy handling of stocks and empties to cut work down to the minimum. It is also important to make cleaning and maintenance easy matters. These have to be reconciled with avoiding an atmosphere, "clinical" or unfriendly.

Central heating is thought by some brewers to be uneconomical as it does not lend itself to the quickly changing demands of the bars. Localized electric heating has the advantage that it can be switched for short periods, as and where required, to suit the numbers using the bars—often small at midday—and can be switched off, if necessary, when the bars become crowded at night.

A generous number of subdued lights independently switched and controlled from behind the bar counter seems to suit the bar atmosphere and the publican's electricity bill well; more intense lighting can be used to good effect over the serveries.

If ceilings are low, artificial extract ventilation is essential to remove cigarette smoke during busy periods.

Basically, the furniture must be sturdy and easily cleaned. Chairs in the public bar are sometimes knocked over and damaged; and they are expected to stand up to rocking backwards and forwards on their back legs. Coverings for upholstered chairs must also stand the strain of heavy wear and soiling. Polished wood table tops require much work to maintain them; unless wiped over many times during an evening they soon become very marked. Plastic finishes are more practical. Table heights under 2ft 2in have not proved

successful; groups of people sitting around them occupy much space and their lordness in a crowded bar means glasses easily knocked off by overcoats.

H. REGINALD HYNE

\* \* \*

WAY back in the 'twenties the pub had sunk to an extremely low level. Except in a few isolated cases it was squalid, sordid and, architecturally, had little or no quality. A new movement then started and the era of the improved public house came into being and continued right up to the outbreak of war. This movement produced a type of design which became known as "Neo-Georgian" with a sprinkling of "Mock Tudor".

"The Improved Public House" was a definite step forward. Although in the light of present-day requirements and new ideas, both in planning and design, many of these early schemes may seem old-fashioned and clumsy; this is inevitable if progress is to be maintained.

At the outbreak of war all normal activities stopped. After the war, for some years, all new building was under licence, and only essential undertakings were allowed. The pub was at the bottom of the priority list, and it is only recently that rebuilding of, and alteration to, licensed houses have started in a serious way.

Now that pub rebuilding has begun in earnest, it would be interesting to see in what direction design is moving. Is it, in the main, carrying on where it left off at the beginning of the war, in a traditional manner, or is it developing in a completely new way, based on the change of thought, new ideas and new materials which have developed since the war? Examining the pubs illustrated in architectural papers since the war, and noting, when travelling about the country, examples of recent work, one is forced to the conclusion that there has been no outstanding development in pub design.

There would seem to be one or two cogent reasons for this. First, at the outbreak of war a large number of schemes approved by the brewers and passed by the justices were shelved, but came out of cold-storage after the war, many of them to be carried out as originally planned.

It has been, perhaps, overlooked that a number of these plans are today out of date, both as to planning and design. It seems a pity that when the rebuilding of the pub started in earnest all these early plans were

## PUBS TODAY

*Ah where's the inn that once I knew  
With brick and brick and chalky wall  
At which the knobbly pear tree grew  
For fear the place would fall?*

*Oh, that old pot-house isn't there,  
It wasn't worth our while;  
You'll find we have rebuilt the "Bear"  
In Early Georgian style.*

*But Winter jasmine used to sting  
With golden stars ashine  
Whence rain and wind would wash and swing  
The crudely painted sign.*

*And where's the roof of golden thatch?  
The chimney stack of stone?  
The crown-glass paines that used to match  
Each sunset with their own?*

*Oh now the walls are red and smart,  
The roof has emerald tiles  
The neon sign's a work of art  
And visible for miles.*

*The bar inside was papered green,  
The settles grained like oak,  
The only light was paraffin,  
The woodfire used to smoke.*

*And photographs from far and wide  
Were hung around the room:  
The hunt, the church, the football side,  
And Kitchener of Khartoum.*

*Our air-conditioned bars are lined  
With washable material,  
The stools are steel, the taste refined,  
Hygienic and ethereal.*

*Hurrah, hurrah, for hearts of oak!  
Away with inhibitions!  
For here's a place to sit and soak  
In sanit'ry conditions.*

from "The Village Inn",

JOHN BETJEMAN.

not completely scrapped and that planning was not restarted on a new basis lining up with present-day thought. The same thing applies to many of the schemes covering alterations and additions which have been carried out since the war. Not enough consideration appears to have been given to the changover to present-day conditions when adapting and altering these out-of-date houses.

The second reason is that the traditional pub appears to be favoured. However one may view the matter, public opinion still likes the old type of pub, and the brewer, on the whole, is still a most conservative person.

The architect, to make a successful job of designing a pub today, must combine traditional qualities, which have become part of the ordinary-man-in-the-street's idea of a pub, with the change which has taken place in the whole approach to drinking and the use of the pub. He must fuse into his new design that atmosphere of cosiness which is the hub around which pub life revolves, and the requirements of the non-alcoholic drinker and the Coca Cola devotee.

He will have to consider, when preparing his plans, that there is a tendency for two bars to be provided instead of three or four as formerly; that there is a school of thought which favours one common bar; that the standard of finish in the public bar is required to be almost as high as that in the saloon bar; that the dining room and restaurant have increased in popularity and that there is an ever-growing demand for the well-planned snack bar or buffet. Further, there is the elimination of the large barn-like type of bar, and the provision, instead, of smaller rooms, broken up so as to give a sense of intimacy and comfort. Finally, there is the growing importance attached to outdoor drinking, the use of the forecourt and the effect of flowers and the provision of terraces and garden. All of these considerations have a profound effect on the type of plan which should be produced.

Basically there is very little change in the fundamental pub plan. We still have the counter; we still have "vertical drinking"; we still have the problem of lavatory accommodation and the problems of providing central service, and proper supervision. If these principles, however, are carried out efficiently and if due attention is given to quietly coloured decoration and the choice of suitable furniture, there is no reason why the pub of today should not be just as dear to its public as the pub of yesterday, without having to continue to reproduce and copy past motifs and *décor* which are not representative of the age in which we live.

E. B. MUSMAN

A twentieth-century pub showing the influence of the bus and motor-car



## THE MERLIN, PINKNEYS GREEN

Architects: EDGINGTON, SPINK and HYNE

Assistants: HENRY VILLET, MAURICE WHITE, ALAN BASSETT

Quantity Surveyors: HENRY COOPER and SONS

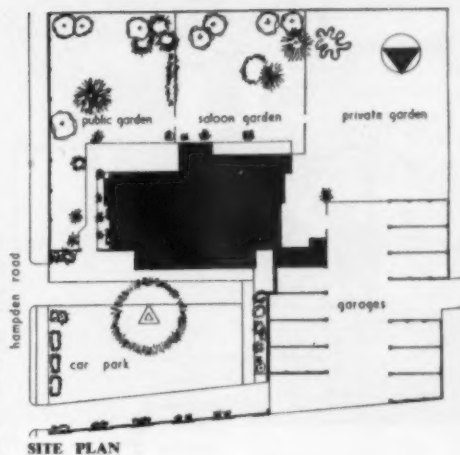
THE client's brief was simple—a "house" with two bars and an off-licence, bottle store, cellar and living accommodation.

The site set in a council house estate was flat and entirely featureless with front and rear access to parallel roads—one with a few shops with flats over.

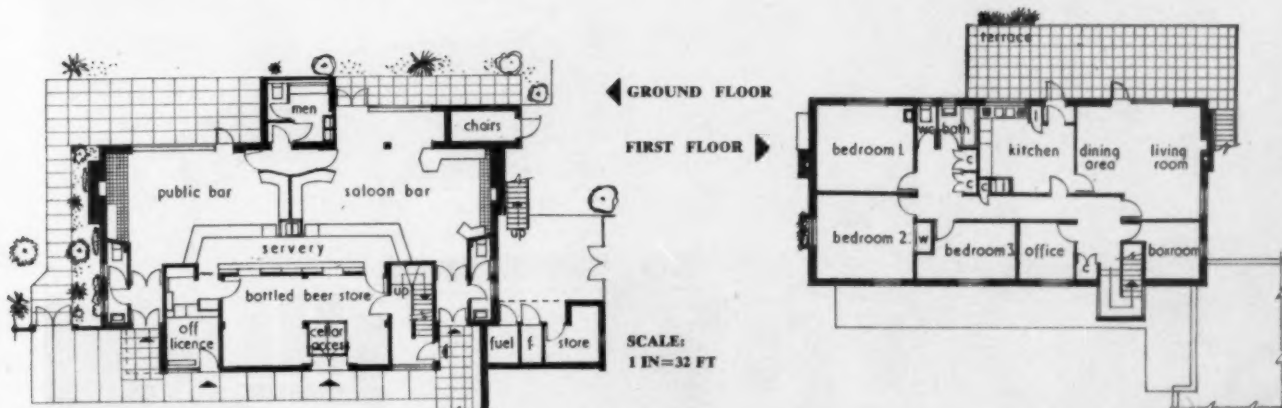
As to the design problem, the architects considered that the

approach to the average pub is ruined by its car park. So often gardens have been wiped away to make room for them, and the only view from the bar windows is out on to the car park. The opposite side of the building is often the delivery side and so the building sits in a sea of tarmac.

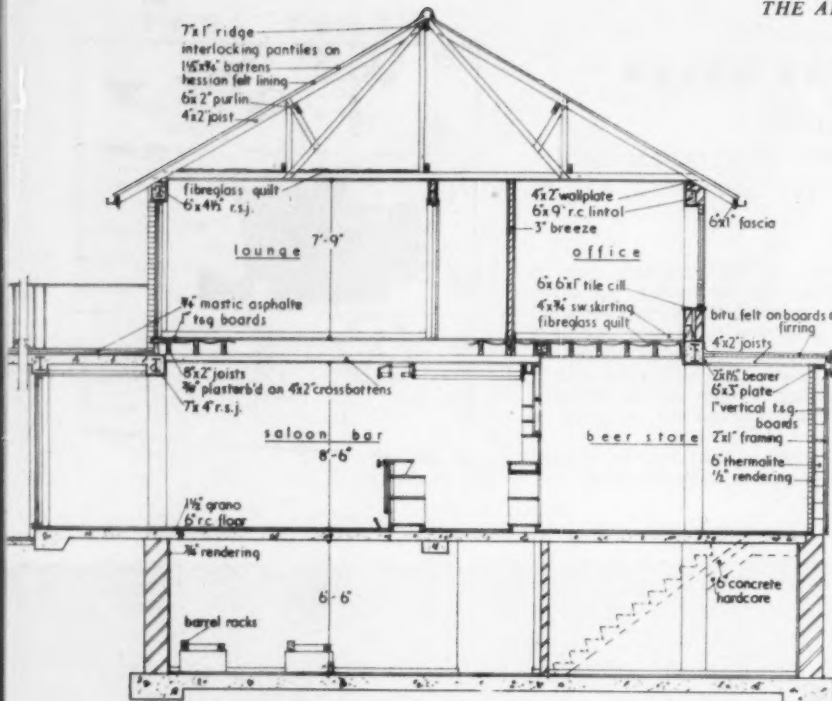
The problem then was to provide all the entrances, including deliveries,



The house from Hampden Road showing the forecourt where the tree (shown on site plan) has been removed



## THE MERLIN



CROSS SECTION  
SCALE: 1 IN = 8 FT

General Contractors: J. M. JONES & SONS LTD.

Sub-contractors and suppliers:

Asphalt Roofing Contractors: Permanite Ltd. Balcony, Balustrade and Steel Staircase: J. W. Cubbage & Son. Beer Engines: Gaskell & Chambers (London) Ltd. Bottle Glass for certain Windows: Faulkner Green & Co. Ltd. Bricks for Fireplace, Public Bar: Pratt (Watford) Ltd. Electrical Installation: D. A. Deeley (Electrical) Ltd. Facing Bricks: W. W. Hall Ltd. Fencing: Uxbridge Fencing & Products Co. Ltd. Furnishings: Dunns of Bromley. Insulation Blocks: Thermalite Ltd. Ironmongery: A. J. Binns Ltd. Landscaping: William Wood & Son Ltd. Lettering: Ward & Co. Lighting Fittings: Atlas Lighting Ltd., Troughton and Young (Lighting) Ltd. Paint: Imperial Chemical Industries Ltd. Roofing Tile Contractors: J. Payne & Sons Ltd. Sanitary Fittings: Miller, Morris & Brooker Ltd. Service Lift: The Hoisting Appliance Co. Ltd. Sign: Ic-Lum Signs C.P.C. (Southampton) Ltd. Structural Steelwork: Dawneys Ltd. Windows: H. C. Jones Ltd.

Rear elevation, showing access to public and saloon bar gardens

on one side of the building, leaving the other side free for gardens.

To achieve this the axis of the building was turned at right angles to the road. On the north the car parking courtyard was provided, planted up with a tree and seat, flowering shrubs, wall plants and flower beds. (Unfortunately, the brewers have already cut down the tree and seat and tarmaced the flower beds adjacent to the pavement.) From this courtyard both bars and the beer gardens are entered and deliveries are made to the beer store and cellar. The entrance to the landlord's flat is also from the courtyard.

The outlook from the bars is into the beer gardens to which they have direct access. The bottled beer store has direct access to the bar counter. A lift connects the cellar, the bar counter and the kitchen.

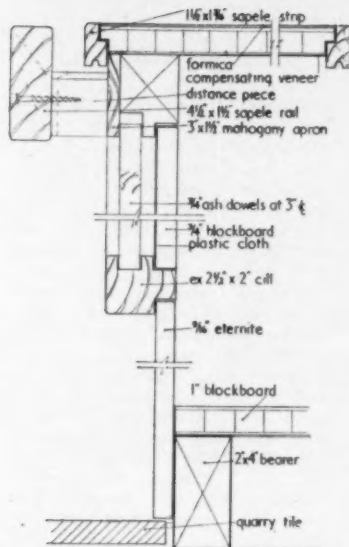
The flat is provided with a roof terrace and direct access to a private garden.

The client invited suggestions for a fuller development of the site that the pub itself would provide and so ten lock-up garages were included in the layout.

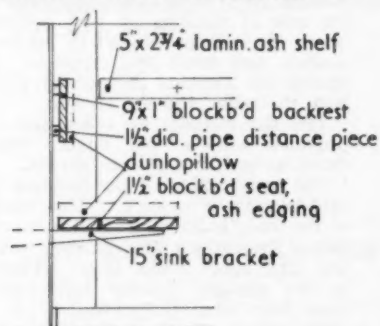
A first sketch layout incorporating car parking courtyard, a group of 10 lock-up garages, and beer gardens received immediate approval but the bars and bottle store were too small and the living accommodation too large!

The final plan developed with a large bottle store (twice the size of

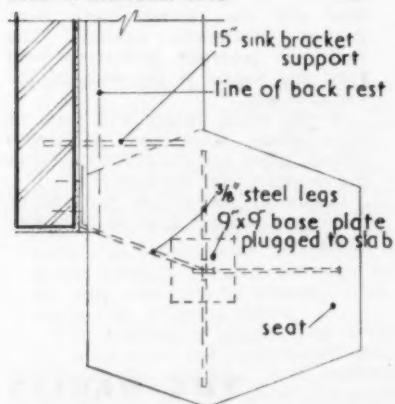




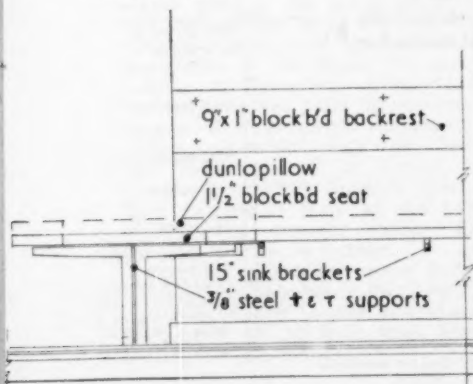
SECTION THROUGH BAR COUNTER ▲



SECTION THROUGH SEAT ▲



PLAN OF SEAT ▲



ELEVATION OF SEAT ▲



Above, saloon bar showing seating leading on to garden.  
Below, saloon bar counter with Formica top, sapele rail, ash dowels against plastic cloth, see detail



Below, saloon bar fire (eternite panelling) with seat





The public bar: the counter has a Formica top and the rail is of sapele



The two-way cupboard between the bottle store and the servery

the original) and cellar under as the core of the scheme, with the bar and off-licence immediately adjoining. To make the beer garden and publican's garden possible, all entrances to the building for bars, bottle store and cellar were planned on the north face of the building off the parking and casual drinking courtyard. The courtyard was to be developed with flower beds and tubs, also a tree with a seat around it.

The bars were quite deliberately planned with recesses and alcoves and changing ceiling levels to create areas for intimate groups (all under supervision of the publican).

Large windows and doors overlook the beer garden which will be secluded from the housing development by trees when these have matured.

The bottle store has two-way cupboards between it and the servery for ease of stocking up with bottled beers. It is large enough to accommodate new stock and empties. A service lift connects the servery with both the cellar and the kitchen.

The flat includes an office and is provided with a roof terrace with direct access to a private garden.

The construction of the building is load-bearing brickwork. The walls of the main building are yellow stock bricks (seconds). The garden walls are sand lime bricks (lilac colour). In the garages flettons were used, these have been whitewashed.

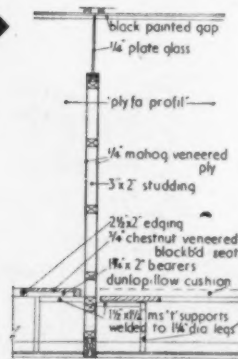
The colour scheme in the bars is as follows; ceilings are generally dark blue and the recesses have been painted parchment colour. The walls are generally grey-green with regal red panels at the ends of the bar counters.

A mat black ceiling with slats of olive green sides and parchment bottom edges are the colours used in the canopies over the bars.

Chairs in the saloon bar are of mahogany and are covered with grey Texturide.

## THE MERLIN

Section through the screen in the saloon bar



Bench in the saloon bar; note the curved screen, detail opposite



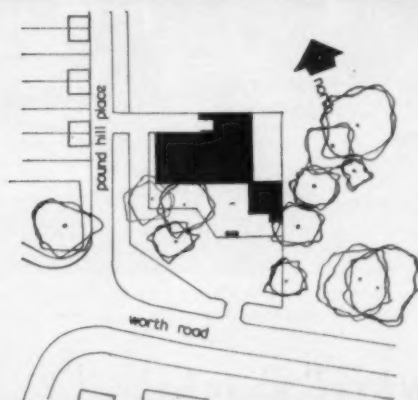


View from Worth Road

## THE WHITE KNIGHT, CRAWLEY

Architects: MUSMAN & COUSENS

Quantity Surveyor: FREDERIC SAUNDERS



THE "White Knight" occupies an unusually attractive site at the corner of Worth Road and Pound Hill Place, in the Pound Hill neighbourhood of Crawley New Town. On its northern and eastern boundaries it is surrounded by an open space, the remainder of what was known as Blackwater Wood, with many forest oaks and holly trees; to the west, separated by a service road, lies a new shopping centre.

The building is placed away from the main road and its L-shaped plan follows the northern and eastern boundaries; this emphasizes the open character of the site and, incidentally, makes possible the preservation of two well-grown oak trees which contribute in no small measure to the appearance of the house. A paved terrace of generous proportions, bordered on two sides by an open pergola of white-painted timber, furnished with tables, seats and chairs and brightened by a display of flowers in carefully designed flowerbeds, extends in front of the pub, providing a pleasant setting for enjoying a drink in summer.

The bars. There are two of these: the Knight's Saloon and the Knight's Taproom, similar in size and shape, each some 620 sq ft in area. Each

View from  
coffee room  
looking across  
the garden  
terrace to  
entrances to  
the bars

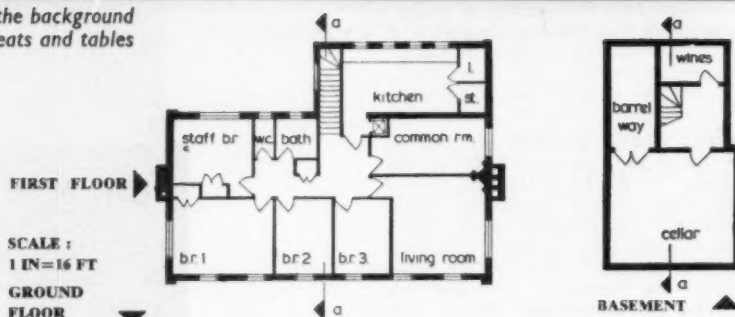
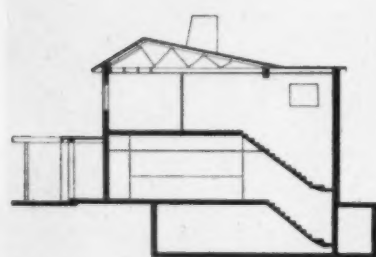


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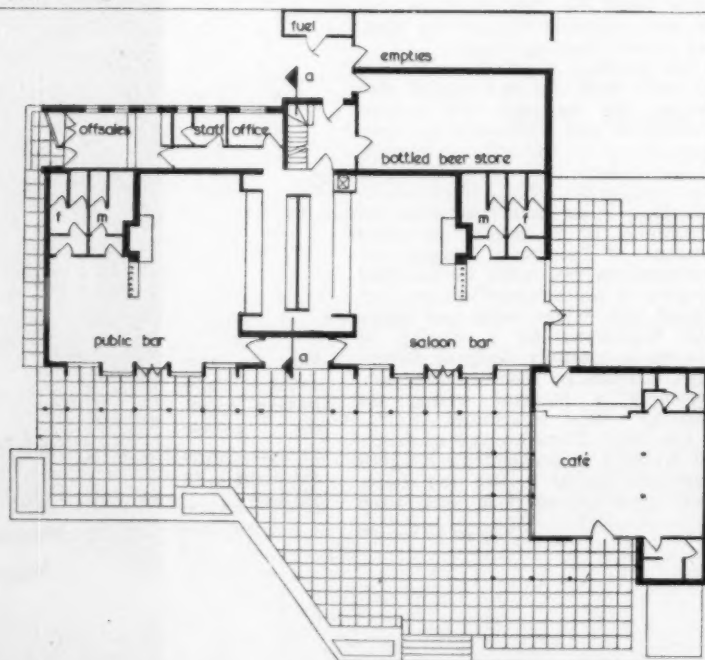
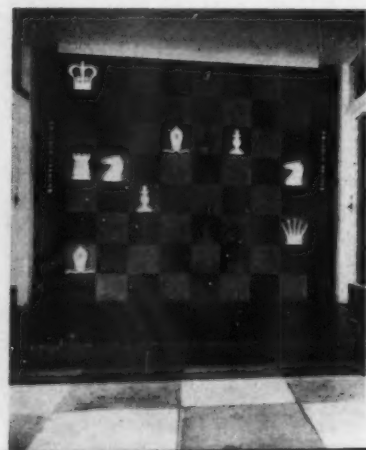


The main garden terrace with the cafe in the background with chequer pattern stone paving. The seats and tables are in teak

## THE WHITE KNIGHT



Chessboard motif at the main entrance



contains a large raised fireplace with a basket grate for the burning of logs and a fixed upholstered seat near the fire. The taproom contains a dart-board space; in the saloon, provision has been made for catering (lunches and snacks). A small enclosed garden with a paved area and a flower border opens off the saloon and is visible through a large fully glazed screen. Each bar contains its own separate men's and women's lavatories.

The bar service is situated centrally between the two bars, with well-appointed counters—each 18ft long—and back cabinets. The cabinets contain cooling shelves for bottled beer.

The off-sales shop is quite separate from the bars, with its own entrance, display window, sales counter and shelving for the storage of bottles; it is connected with the bar service and the beer store by a short length of corridor.

The coffee room is placed at right angles to and separate from the main building. This room is not licensed; soft drinks, teas, light lunches and refreshments will be served here across the counter from its own servery. Separate men's and women's lavatories are provided.

Cellarage, etc. The cellar is situated directly under the bar service and is equipped with cooling plant to ensure the keeping of draught beer at an even temperature throughout the year. A lock-up store for wines and spirits adjoins the cellar.

The large bottled beer store is situated close to the bar service at ground-floor level; the handling of crates is thus greatly facilitated. A store for empties adjoins this room; both open directly on to the back yard, where deliveries are made.

The materials used in the construction of the "White Knight" are, in the main, traditional, although their application to the building often forms a departure from the usual standards of pub design. The walls are of load-bearing brickwork, Surrey grey sandfaced bricks being used for facing work; the floors of reinforced concrete; the roof structure of timber.

**General Contractors:**

E. C. ANDREWS BUILDING  
& CONSTRUCTION CO. LTD.

**Sub-contractors and suppliers:**

Bar Fittings: C. E. White & Co. Ltd. Bottle Cooling Shelves: J. & E. Hall Ltd. Cast Iron Fire Backs: G. Jackson & Sons Ltd. Cellar Flaps: W. N. Froy & Sons Ltd. Copper Roofing: Fredk. Braby & Co. Ltd. Decorated Glass: John R. Dunning & Son Ltd. Decorative Metalwork: George Wright (London) Ltd. Electrical Installation: Alpha Manufacturing & Electrical Co. Ltd. Felt Roofing: Permanite Ltd. Fire Grates: C. J. Pratt. Flush Doors: Jayanbee Joinery Ltd. Gas Installation: South-Eastern Gas Board. Ironmongery: N. F. Ramsay & Co. Ltd. Metal Windows: W. G. Kaleyards Ltd. Perspex Roof Lights: William J. Cox Ltd. Sanitary Fittings: Sticsons Sanitary Fittings Ltd. Service Lift: Aldous & Campbell Ltd. Slate Slabs: Setchell & Sons Ltd. Steel Reinforcement: The Square Grip Reinforcement Co. (Colnbrook). Sump Pump: Broadwall Engineering Co. Ltd. Terrazzo Work: The Mosaic & Terrazzo Process Co. (Staines) Ltd. Water Heaters: Aidas Electric Ltd.



Left, view from saloon bar, and garden terrace. Below, view from the saloon bar to courtyard garden at back of the cafe



The brick and slate fireplace in the saloon bar. On the wall, Teniel drawings from "Alice Through The Looking Glass"



**THE PHOENIX, HARLOW**

Designed by  
ARCHITECTS' DEPARTMENT, COURAGE & BARCLAY LTD.



Above, general view of the "Phoenix" taken from the corner of Tillswicks Road and Tumblers Road. On the left, the public bar, the saloon bar, and, far right, the club room. Below, view from the corner of Tillswicks Road, showing, on the right, the club room, the saloon bar, and, far right, the public bar.



THE "Phoenix" is the third house to be built by Courage & Barclay in Harlow New Town; its licence was transferred from the "Old King's Head", Potter Street, which has now been demolished. The house is situated in the Tye Green neighbourhood centre which houses young people, some of whom were actually employed on the site during the course of erection.

The scheme is developed on an inverted "T" plan with centralized servery area, joint lavatory block and bottle beer store, thus enabling the licensee to have maximum supervision with the least amount of staff. The bottle beer store is at ground level, which by trolley feed system allows for the easy replenishment of the display cabinets in both bars by back filling, so that a continuous feed of new stock takes up position behind the existing display.

The cask beer store is situated at basement level, directly below the bar servery area, which enables only short lengths of beer piping between cask and beer pump.

The interior décor has been carefully planned, so that, although the general scheme is a departure from the traditional public house, the friendly and intimate atmosphere has been maintained.

The club room forms an annex to the saloon bar, divided by mahogany folding door, thus enabling the club room to become part of the saloon bar when the house is trading at peak periods.

Apart from the two coal fires in the saloon and public bars, the house is heated electrically by convection and tubular heaters, and the hot water by electrically heated storage tanks; this has proved efficient and economical to run.

The house is constructed in multi-coloured stocks, relieved by exposed aggregate slabs and yellow Vitralite panels. Windows are large and provide unrestricted views across the adjacent sports field.

General Contractors:  
H. DARBY & SON (LEYTON) LTD.

Sub-contractors and suppliers:  
Dome Lights: Greenwood's and Airvac Ventilating Co. Ltd. Electrical Installation: Dennis Pollen & Co. Ltd. Electric Heating: E. K. Cole Ltd. (Ekco.). Exposed Aggregate Slabs: Malacarp Terrazzo Co. Ltd. Floor Covering, Curtaining, etc.: John Lewis & Co. Ltd. Food Hoist: Albous & Campbell Ltd. Furniture: R. Morgan & Son Ltd. Garden Works: R. A. Pearson. Glazing: John Hall & Co. Ltd. Lettering: Yannedis & Co. Ltd. Lighting: Falk Stadelmann & Co. Ltd. General Electric Co. Ltd. Paint: Mander Bros. Ltd. Pewtering: Geo. Shimeild & Sons. Roof Covering: Nuralite Ltd. Sanitary Equipment: Alfred Goslett & Co. Ltd. Steelwork: Alfred J. Bridle Ltd. Vitralite: James Clark & Eaton Ltd.

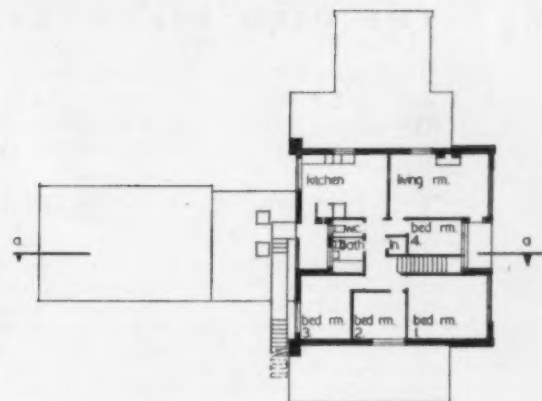


The beer garden

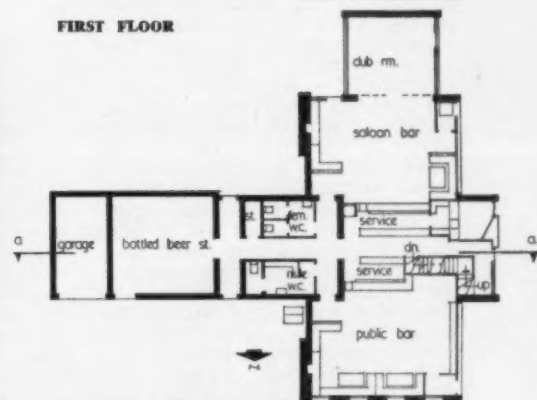


Public bar showing the brick fireplace and banquette seating

Saloon bar



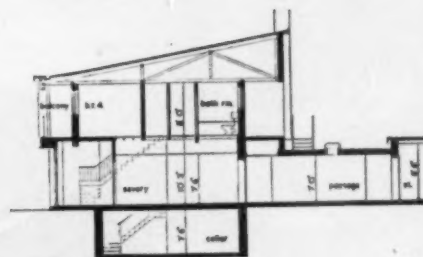
FIRST FLOOR



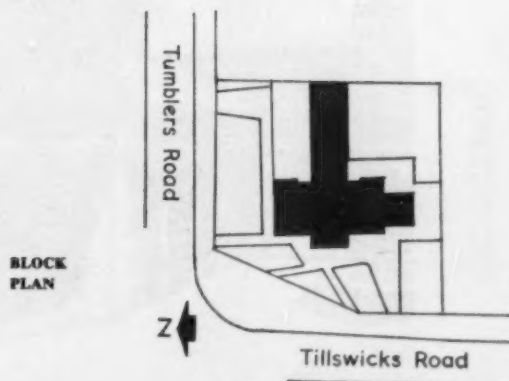
GROUND-FLOOR PLAN  
SCALE : 1 IN = 32 FT



BASEMENT



SECTION



BLOCK  
PLAN

## THE PIED PIPER, STEVENAGE

Architects: MOORE SIMPSON and CLEVERLY

Quantity Surveyor: W. L. F. PIERCE

Heating Engineers: J. WONTNER-SMITH GRAY and CO. LTD.

Electrical Engineers: STEVENAGE ELECTRICAL CO. LTD.

**T**HIS house forms the terminal of a neighbourhood shopping centre in Stevenage New Town. It occupies a corner site bounded by Oaks Cross Road and the shopping centre and bus terminus.

The ground floor has been laid out with two bars, the public bar entered from the shopping centre, with an entrance lobby flanked by lavatories, having an area of approximately 425 sq ft, and a private bar entered from Oaks Cross Road (across the paved area) with an area of about 475 sq ft. The service space has been laid out in the form of a T, the lateral arm of which forms the service in the private bar and the longitudinal arm of which provides a service to the public bar and the off sales service. The off sales department has been formed with a small shop front, entered from the shopping centre. At the back of the service in the ground floor are a case and cask cellar and at the back of the private bar, a double set of lavatories, with the boiler house between.

The first floor has been laid out as a flat for the tenant, with three bedrooms, a living room, kitchen and bathroom. The living room has a balcony (which commands one of the best views in the New Town) and the kitchen is connected by means of a service lift with the private bar service to allow light meals to be

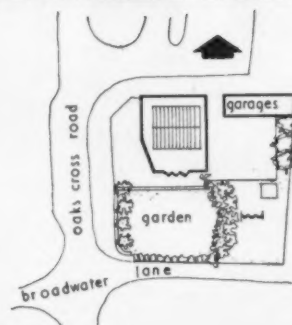
served from the kitchen into the bar.

In the private bar, which is floored with a fitted carpet direct on to a cement and sand screed, the "fire-place wall" has been carried out in facing bricks and a seat at the level of the raised hearth has been formed in stone. In the adjoining wall are three angle seating bays which command views south and over the garden.

In the public bar the flooring material is black linoleum and artificial Cotswold stone and facing brick. The service counter and the fixed seating are made of elm.

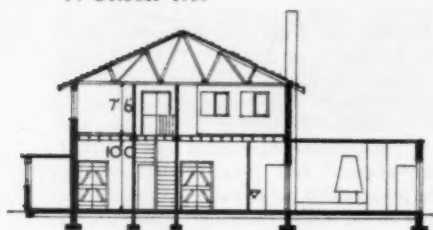
These bars are lit by Carda centre pivot windows with a range of clerestory lights above.

The house has been roofed with Stonewold concrete slates and the first floor has been faced with cedar weather boarding on a 9in breeze backing. The lower floor (which is separated from the upper by the line of clerestory lights referred to) is faced mainly in brick, though use has been made of coloured rendering, vertical boarding and a panel of artificial Cotswold stone. "Clarendon" lead-coated steel lettering has been provided over the off sales entrance at high level on the weather board and on the Cotswold stone panel facing Oaks Cross Road. Entrances were paved with Southwater Paviers.

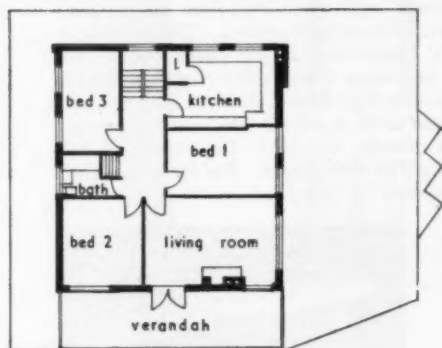


The entrance to the private bar, across the paved courtyard, from Oaks Cross Road

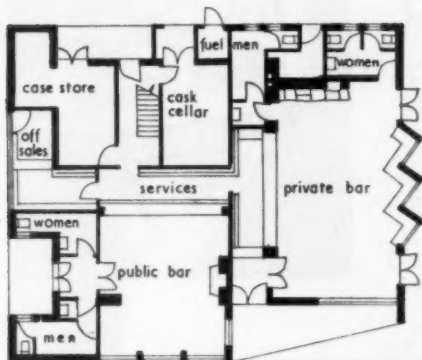




SECTION THROUGH PRIVATE BAR



FIRST FLOOR



GROUND FLOOR SCALE: 1 IN=32 FT

Photograph above, the private bar, note clerestory windows mentioned in text. Below, the angle carda windows in the private bar

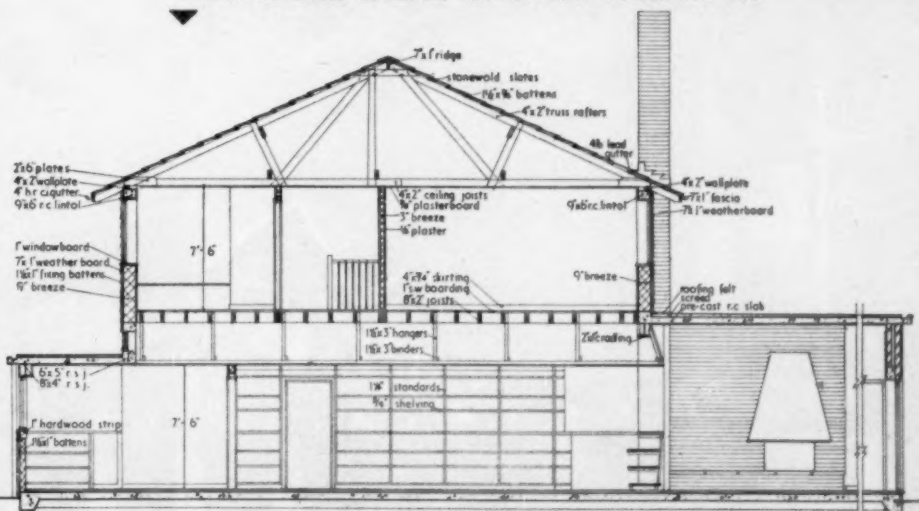


SECTION THROUGH HOUSE AT PRIVATE BAR. SCALE: 1 IN=8 FT

General Contractors:  
HOWARD FARROW LTD.

Sub-contractors and suppliers:

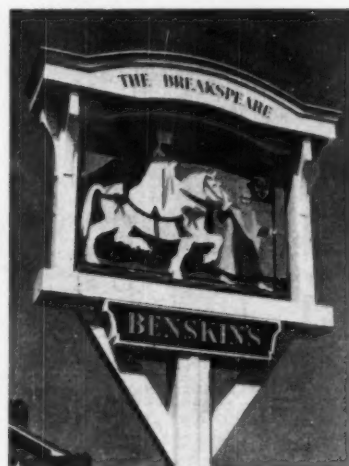
Artificial Cotswold Stone: R. Passmore & Co. Ltd. Beer Engineers and Services: Gaskell & Chambers, London, Ltd. Carda Window: Holcon Ltd. Counter Fittings and Special Joinery Items: R. Cattle Ltd. Facing Bricks: R. Passmore & Co. Ltd. Flooring Contractors: Talbex Ltd. Furnishings: Heal's Contracts Ltd. Garden Contractors: Gavin Jones (Nurseries) Ltd. Inn Sign, Post, etc.: Fredk. Braby & Co. Ltd. Ironmongery: Comyn Ching & Co. (London) Ltd. Kitchen Fittings: E. & H. Grace Ltd. Lettering: Ward & Co. (Letters) Ltd. Railings: Fredk. Braby & Co. Ltd. Roofing Contractors: Tanner & Hall Ltd. Sanitary Fittings: W. N. Froy & Sons Ltd. Service Lift: George Johnson Ltd. 'Sundaw' Windows: Rutherford, Geake & Co. Ltd.



On this page are photographs from the following three public houses: "The Bulldog", at Sheffield, "The Breakspear", at Abbots Langley, Herts and "The Hansom Cab" at Luton, Beds. "The Bulldog" has a mahogany-mirrors-and-polished-glass atmosphere carried throughout the interior. Features of the interior decoration are polished terrazzo with mother-of-pearl and brass inserts to the counter front, but the present-day notions of interior decoration are acknowledged in the chair coverings, which are in rich yellow leather-cloth. The ceiling in "The Bulldog" Bar, illustrated on the left, is mahogany; the walls are also mahogany. "Britannia" cast-iron tables from the old pub on the site were reconditioned and reused. The architects were the Architects' Department of Ind Coope Ltd. "The Breakspear", is a new house named after Nicholas Breakspear, who later became Pope Adrian, and was born nearby. This house is designed to fit in with a new housing estate. The architects were also the Architects' Department of Ind Coope and Benskins. The architects of "The Hansom Cab" were Moore, Simpson and Cleverly.

## PUBS TODAY

1. "The Breakspear", the sign of a newly built house at Abbots Langley, Herts
2. "The John Bull" smokeroom of "The Bulldog", Sheffield
3. "The Hansom Cab" is at Wigmore Lane, Luton, Beds



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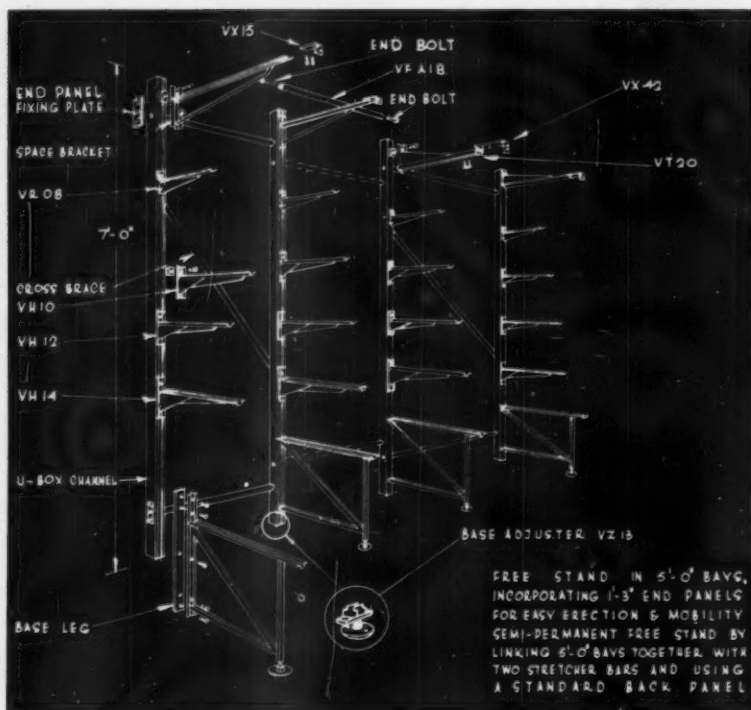
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# Information Digest

## OFFICIAL PUBLICATIONS

- **New Grants for Better Homes.** How to claim them. Ministry of Housing and Local Government. H.M. Stationery Office. Price 1s 6d, plus postage.

The "House Purchase and Housing Act, 1959" and the "Housing (Financial Provisions) Act, 1958" made arrangements for two kinds of grants for improving existing dwellings which are substandard in sanitary fittings. A "standard" grant can be obtained towards the cost of installing a bath, w.c. or hot-water system. A "discretionary" grant is available for conversions and adaptations of larger buildings. This category is entirely under the control of the local council, while the "standard" grant is available as a right.

An owner-occupier, landlord or leaseholder, having 15 years unexpired tenure, can claim either or both grants. The amenities to be provided under the "standard" grant arrangement are a fixed bath or shower in a bathroom, a washbasin, or hot-water supply to bathroom and sink, a w.c. in, or adjoining, the dwelling and good facilities for storing food. If only some of these are needed, grant in respect of these can be given. Generally, only houses built prior to 1944 rank—a surprisingly late date. The grant is half the actual cost, including necessary work to decorations, with maximum grant of £155. The amount of grant available for putting in part only of the "amenities", supplementing those previously existing, is stated.

A "twelve-point standard" has been set in connection with the "discretionary" grants scheme. On completion of improvements the house must satisfy the following: be in good repair and dry, have every room lighted and ventilated, have indoor water tap, a hot-water system, a w.c., sink or sinks with waste system, a drainage system, artificial lighting to every room, warming facilities, food storage and cooking arrangements, and a proper solid-fuel store. Where circumstances preclude the provision of any of these, a grant may, nevertheless, be available. Conditions attached to consideration include that the tenure must be for 15 years, that the house has a prospective life of 30 years and that the "standard amenities" will be practicable. The amount of grant is again half the cost, with a maximum of £400 for each dwelling, including flats converted from a single house. In special cases more may be granted if special circumstances cause greater cost.

- **A New Approach to Craft Training for the Building Industry.** Yorkshire Educational Association for the Building Industry, Blue Bridge Lane, York. Price 5s, plus postage.

This subject was discussed at the annual conference of the association in June of this year. The speakers were the Hon. Richard F. Wood, M.P., Parliamentary Secretary to the Minister of Labour and National Service, Mr. K. L. Torrington, an education officer of I.C.I. Ltd., Mr. G. Dickinson, Head of the Building Department of York Technical College, and Mr. P. M. Shepherd, chairman of the association.

In 1958, about 2,000 fewer boys entered apprenticeship than in 1957. This is a serious reduction and must reinforce the strong recommendation of the British Employers Conference to increase the openings for apprenticeship. Government funds of £75,000 are available for the provision of training officers, for whom instruction is available at the Government's Letchworth Centre.

In I.C.I. the apprentices now accepted have increased at Billingham from 60 per annum to 165 to allow for vacancies occurring in trained workers and non-continuing beginners. This may equally apply to the building industry. Apprentices' training is planned and scheduled, the casual training of former years having proved to be incomplete.

To avoid boredom, all apprentice training is productive in some way, possibly only in making tools for the apprentices' own use.

Mr. Dickinson said the pre-training scheme covered the period from when the boys left the secondary modern school to reaching 16 years four months—the latest age at which the building industry liked to take apprentices. All pupils take practical instruction in brickwork, carpentry and joinery, plumbing and painting and decorating, before deciding which trade to specialize in. Painting and decorating is least popular. Occasionally a boy decides that building is not his forte, which Mr. Dickinson considered not a matter for regret for wasted training, but rather an advantage in directing the boy into a more congenial job.

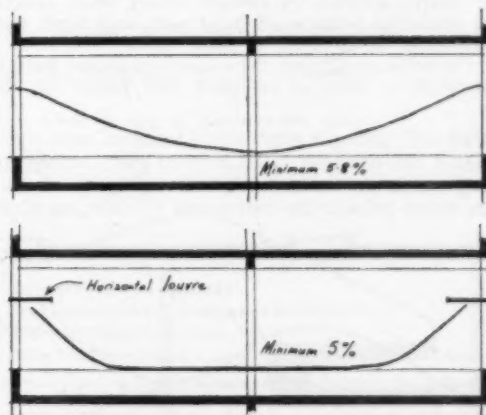
Mr. P. M. Shepherd commented on and criticized the pre-apprenticeship training scheme on a number of grounds, but also put up an alternative scheme designed to direct boys into the trades requiring supplementation and to be economic assets to their masters.

The chairman, Mr. Harvey G. Frost, F.I.O.B., summarized the discussions, including the pros and cons of the comments on the suggested revised pre-training and apprenticeship schemes and remarked that the City and Guilds of London Institute had, for the last four years, been engaged in a fundamental revision of their syllabuses for building craft training, the new "Intermediate" level being well within the capacity of the average craft apprentice. Day-release arrangements had now been very largely accepted and made for better and more extensive training for the industry.

- **The Lighting of Factories.** Factory Building Studies No. 2, Building Research Station. H.M. Stationery Office. Price 3s 6d, plus postage.

This study has been recorded by M. J. Keyte, A.R.I.B.A., and H. L. Gloag, A.A.D.I.P., A.R.I.B.A., of the B.R.S. It is one of a number of studies which arise out of the activities of the Factory Building Research Committee, formed in 1956 on the initiative of the Midland Regional Board for Industry. The committee's aims are to promote, finance and advise on research on the layout, design and relative initial and running costs of workshops and factories.

Both day lighting and artificial lighting are examined



With side windows, which tend to give uneven illumination, considerable improvement can be made by inserting some form of horizontal louvre or baffle as shown above. More even illumination is achieved in the middle of the building and sun penetration and glare are reduced.

## Information Digest (continued)

with the object of aiding factory managements to define their particular requirements when instructing architects, lighting engineers and consultants. It is not highly technical but rather a guide to general good practice. Maintenance is also considered and layout of machinery in relation to the sources of light.

There are two parts in the study. The first considers the amount of light required, brightness contrasts, effects of some forms of artificial lighting and gives a summary of these considerations. The second part deals with the application of these, including day lighting, artificial lighting, mixed day and artificial lighting and finishes with summaries of these points.

In considering the principles, useful comparisons have been cited, such as that the smaller a detail the more light that is needed, e.g., a compositor setting 9 point type requires about twice the brightness needed for setting 12 point type. Also, "the softer the contrast, the more light that will be required", and "the darker the work the more light will be required". Both statements are generally accepted, but are well worth re-stating. In Table I are given recommended levels of illumination for a wide range of occupations. These range from 200 lumens (our old friend "foot-candles" with a new label) per square foot for "Minute inspection work"—equal to 40% daylight factor—to 7 lumens for large assembly work, waiting rooms and rough labouring (equal to 1.4% daylight factor).

Brightness can be usefully localized to assist concentration on the operation, i.e., by preferential lighting on the subject, but this should not give too strong a contrast with the background. Glare must be avoided by screening the light source, whether artificial or natural. Excessively bright surfaces, excessive contrasts of brightness or the combination of these two are given as the usual causes of glare.

Colour falsification, flicker and stroboscopic effects are some of the defects of much artificial lighting. The last two can affect work on moving parts almost synchronizing with the cycle speed. Methods of avoiding these are mentioned.

As to day lighting, precise forecasts can be made by well-known methods, but well-established practice in providing day lighting can be quite unsuitable for some machinery installations which may cast shadows or obstruct the light sources unless these risks can be foreseen, to enable alternative arrangements of daylighting to be studied. Sixteen diagrams illustrate by curves the efficacy of alternative forms of lighting. These are not, of course, affected by sunlight which, while generally to be excluded because of brightness and heat, can with advantage be admitted in small doses.

On artificial lighting, the conversion factor from lumens to watts is given as one-fifth watt/lumen for filament

lighting or one-fifteenth watt for fluorescent lighting. Distribution of light is important in that it is not only the working plane and gangways that are to be considered, but general illumination of the walls and ceiling or roof, to reduce contrast.

Maintenance of light sources must also be provided for, in arranging for access to roof lights and windows for cleaning regularly. The same problem in a different form arises in the maintenance and cleaning of artificial light sources.

## TRADE ASSOCIATION PUBLICATIONS

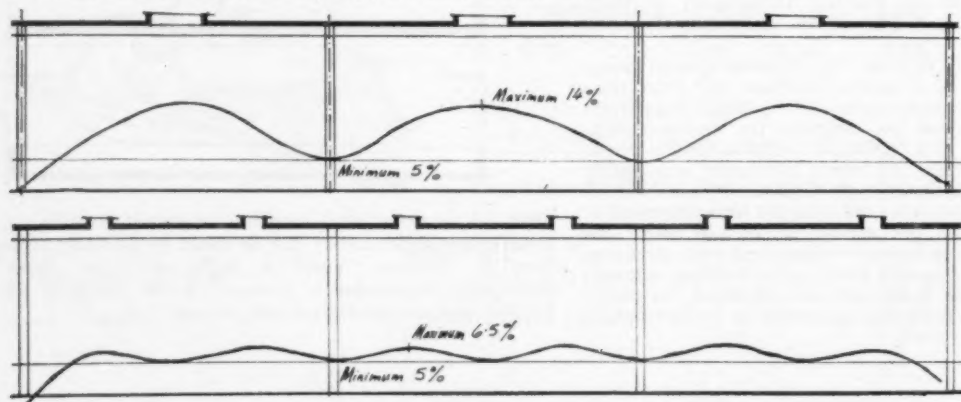
- **Copper Abstracts No. 3.** Copper Development Association, 55 South Audley Street, London, W.1. Telephone: GROsvenor 8811.

Formerly technical information has been published in the C.D.A. Technical Survey but the Copper Abstracts succeed these, this being the third of the monthly issues. They give selections from literature dealing with copper but do not carry any original matter. The issue now received quotes from many publications but few have connection with building except for some affecting electrical goods and plumbing which do not yet concern practice.

- **Lead Sheet and Pipe.** Lead Development Association, 18 Adam Street, London, W.2. Telephone: WHItchall 4175.

This small booklet is partly propaganda, partly practical. It repeats information on source of supply, composition, conversion and corrosion resistance (including protection with bituminous paint against the effects of dampness in timber or water off moss-covered roofings), all of which ought to be well known, before dealing with the practical side. This includes physical properties, where the weight is given as 707lb for cast lead and 709lb for milled lead, volume is 2.44 cu in per lb., thermal conductivity is 241 B.Th.U./sq ft/in/°F/hr and linear expansion is 0.0000163 per degree F. Under Mechanical Strength, the reader is reminded to make provision for movement and support rather than suspension. Thickness of wall for water pipes is referred to but adherence to recommendations of water authorities is considered preferable to assumptions not based on long tests. Under Alloys with Improved Mechanical Properties, it is noted that quite small additions may make considerable difference in strength: silver-copper-lead is used for water pipes, being superior in tensile strength and creep resistance to normal lead water pipe, sometimes enabling lighter weights to be used. As to sheet lead, the method of manufacturing from 5in slab thickness by first-stage rolling down to 1in thickness is described, which is followed by

With roof lighting in single-storey factories, even illumination over the working plane is best provided by a number of uniformly spaced and relatively small strips of glass, rather than bigger glazing units at wider centres. This is illustrated by these diagrams of continuous horizontal roof lights. In the top diagram the glass area is 17 per cent of the floor area, whilst in the sketch below it the area is only 11½ per cent of the floor area



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## Information Digest (continued)

second-stage rolling down to the weights (instead of thicknesses) commonly specified. Sheet lead is available in 8ft width and up to 40ft long. Cast lead sheet is not covered by a British Standard but specialists make these from about 9ft by 3ft to 18ft by 6ft. The weights can be cast to within about  $\frac{1}{16}$  lb per square foot of specified weights. Lead burning and other techniques are briefly described. In the case of lead pipe, the maximum size is 12in diameter and all are made by extrusion. Alloy pipe is made by the same process. B.S. 602:1956 gives tables of weights recommended for water service and distributing pipes laid underground, water service and distributing pipes above ground, soil, waste and vent pipes, flushing and warning pipes. For silver-copper-lead alloy pipes B.S. 1085:1956 is applicable for four of these classes.

● **Curing Chimney Troubles.** Coal Utilisation Council, 3 Upper Belgrave Street, London, S.W.1. Telephone: SLOane 9116.

The B.R.S. has given this subject a thorough treatment, but it is likely that its publications do not often reach the public, so this booklet should have a good reception. It gives the causes of draught—which need not be repeated here—and the symptoms of each. Figures 2 and 3 sound the death knell of the “smoke shelf”; it is shown in the former and described as forming a large void which can kill an up-draught—just the opposite argument from that previously used to justify the smoke shelf—that it provided a stop to down draught, whereas a sloping surface in its place eased draught into the fireplace. Figure 3 shows the smoke shelf bricked-up and launched. The same illustration shows the throat narrowed to 4-4½in by forming a lintel behind the tile-slatted front, in agreement with the B.R.S. recommendations. Throat restrictors are commended, as are under-floor air inlets adjacent to the hearth. A valuable point made is that, too often, the height of the fire opening is too great and stipulates the arch to be not more than 22in high for raised fires or 20in for hearth-level fires. Fire surround manufacturers, please note and implement!

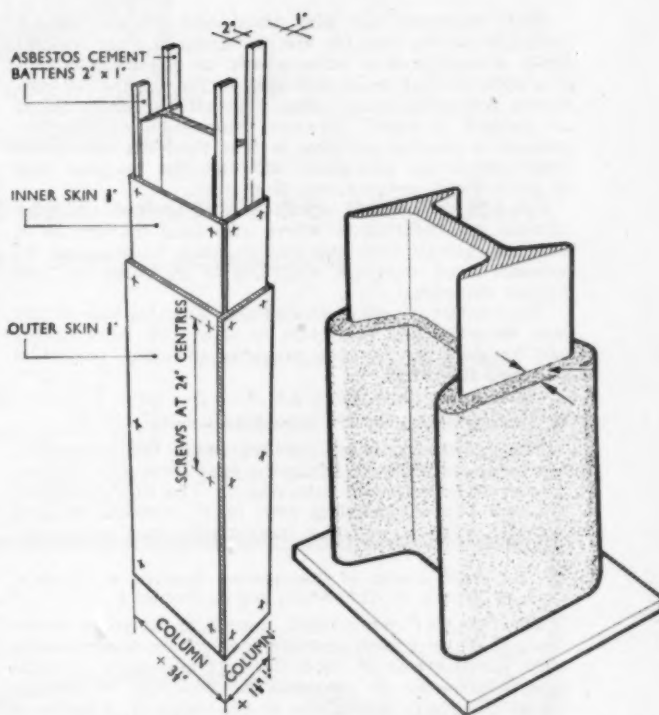
The “carry-over” of the flue is often at too flat an angle with abrupt changes of direction. No recommendations are made, such as that the minimum angle should be, say, 45°. Flue linings and parging are also referred to.

Boiler and closed-stove flue connections are illustrated to show how easily poor fitting can check draught, where the spigot of the fitting's smoke pipe may almost impinge on the fireback or an extension to the smoke pipe may be needed to lead the smoke from a void into the flue itself.

The booklet is addressed to the layman and carries a useful number of hints, tests and recommendations for improving efficiency of open and closed appliances.

Another publication describes the organization and services of the C.U.C. Although founded as early as 1932, it scarcely became an effective force until after the war, especially since 1951, when it assumed responsibility for fuel efficiency for the Ministry of Power. The C.U.C. is composed of representatives of the National Coal Board, Chamber of Coal Traders, Co-operative Union Ltd. (as coal merchants), British Ironfounders' Association, Combustion Engineering Association (as makers of appliances), Low Temperature Coal Distillers' Association (producers of low-temperature coke) and other bodies. Funds are provided by the N.C.B. and other members.

The Council has 13 regional committees and their regional officers are available to advise on domestic appliances and action to be taken to prevent air pollution. An important step was the adoption of the “Approved Appliance Fixers' Scheme”, which provides training in a five-day course in fixing practice. The annual list of Approved Domestic Solid Fuel Appliances is a well-known and helpful publication. Others give technical details of appliances and fixing instructions. There are ten information centres.



Left: One hour's fire protection of steel beams and columns is provided by one  $\frac{3}{8}$  in thick skin of Turnall asbestos insulation board, and two hours by two skins of  $\frac{3}{8}$  in board. Right: Thickness of applying sprayed Limpet asbestos depends upon period of fire resistance required

## TRADE PUBLICATIONS

● **Fire Protection of Structures.** Turners Asbestos Cement Co. Ltd., Trafford Park, Manchester.

Useful information is assuredly the best form of advertising. In this booklet Turners have given brief interpretations of by-laws in relation to asbestos and asbestos-cement materials.

The gradings of “Surface Spread of Flame” are defined, from Class 1 to Class 4, alongside the testing apparatus and with a chart giving distances along the specimen under test and the temperature to which it is subjected. The “Fire Resistance Test of Structures” follows, then the “External Fire Exposure Roof Test.” In all these, the behaviour of asbestos-based materials is given. There follows a note on Roof Coverings, 11 being listed, which are approved for buildings of 36,000 cu ft capacity. It is noted that the revised building by-laws do not call for fire resistance of roof coverings. Roof and Wall Lighting, the next heading, notes that in England and Wales, no by-laws affect the use of acrylic sheets and translucent resin-bonded glass-fibre sheets, but some authorities have imposed their own conditions or limitations. These restrictions are quoted. Wire reinforced corrugated glass sheets are not restricted. The corrugations of all these types of sheet match those of corrugated asbestos-cement.

Under “External Walls”, it is noted that the fire resistance required depends on four conditions, all or any of which can be satisfied by using asbestos products. Curtain walling is referred to, the requirements for fire breaks at floor levels being quoted, as affecting factories, warehouses and public buildings.

## Information Digest (continued)

Steel structures are also considered. Asbestos-based materials can be used for fire protection in place of concrete, some instances being shown in photographs and in a table of thicknesses according to the duration of protection demanded, using either "Turnall" insulation board or sprayed "Limpet" asbestos. Aluminium construction presents a peculiar problem in that there are no by-law requirements for protection, although the material fails at much lower temperatures than steel.

Concrete beams and columns, both normal and prestressed, are referred to where additional thicknesses of concrete, quoted from the by-laws, may be displaced by asbestos-based materials, according to the period of protection demanded.

The booklet is well illustrated and indicates how weight may be saved and protection to satisfy all requirements can be given by Turners' products, including protection of wood structures.

● **Expandite Limited 25.** Chase Road, London, N.W.10.

This cryptic title is less puzzling on the brochure cover, but it does serve to emphasize the attainment of a quarter-century of growth and achievement. The firm's products are well known, including joint fillers, mastics, plugging material, water stops and corrosion protection treatments.

● **The Ward Group of Companies.** Products and Services. T. W. Ward & Co. Ltd., Albion Works, Sheffield 4.

This "prestige" publication, devoted to the group activities and those of their associate companies, illustrates the wide ramifications of their interests and high technical accomplishments. It contains the addresses of all the offices and works in addition to the names of subsidiaries and associate companies, including those overseas. It is not a catalogue, yet catalogues the lines or specialities of the group, including tractors, bulldozers, excavators, shovels, conveyors, concrete mixers, cranes, engineering machinery of high refinement, electric motors, pumps, compressors, food preparing machines, railway plant and sidings, boilers and tanks, thermal insulation, Portland cement, granite, road materials, concrete products, structural steelwork, iron and steel sectional rollings and, finally, nuts and bolts. As dealers also in scrap, they undertake shipbreaking and dismantling of works.

## CATALOGUES

● **Ventilation.** Greenwood and Airvac Ventilation Co. Ltd., Beacon House, Kingsway, London, W.C.2.

One leaflet illustrates and describes the "Permavent" window ventilator—a shallow metal fronted duct, "Mechavent 75" extract fans for kitchens for which a canopy is available, the well-known larder vent and the skylights. It also shows the range of domestic ventilating grilles or ventilators. The second leaflet is on Powered and Natural Ventilation for Industry, showing and describing the range of roof vents, rooflights and wall louver ventilators.

● **Lifts.** Marryat & Scott Ltd., Wellington Works, Hounslow, Middx.

A leaflet has been issued on this manufacturer's passenger lifts which gives lift shaft, lift well and entrance dimensions. It also indicates the types of drive needed for certain speeds. Alternatives are also described as to means of control.

● **Rainwater Outlets.** Petalon Limited, 5 Fitzhardinge Street, London, W.1.

Petalon have the rights for the "Fulbora" rainwater outlets. These resemble the screw-in type of waste outlet

for basins and sinks, in that the top of the rainwater pipe receives a funnel-shaped pipe having one crossbar. The metal weathering sleeve is dressed into funnel and a mating ring is laid over and secured with a centre hook bolt engaged in the crossbar below and held down with a nut. The stem of the hook-bolt extends upwards to receive a domical grating which in turn is held by a second nut. The metal weathering sleeve is thus firmly held in place. Oblique, horizontal and vertical patterns are available.

● **Paint.** Allweather Paints Ltd., 36 Gt. Queen Street, London, W.C.2.

This publication gives recommendations for the use of "Pitan" Metallic Lead Primer. It is understood that the composition seals and absorbs to some extent, rust-causing elements. Surface preparation should be by shot-blasting, flame cleaning, power-brushing or chipping or hand wire-brushing.

● **Fireproofing.** Albi-Willesden Limited, 6 De Vere Gardens, London, W.8.

The pamphlet dealing with "Albi-R" fire retardant coating has been reproduced. The product is claimed to protect surfaces for more than 14 years. It can be over-painted with most flat or gloss finishes but is available in six tints. It is claimed to provide surface protection up to Class 1 "Surface spread of flame". It is supplied in powder form, to be mixed with water. Recommendations for use on various surfaces are given.

● **Doors.** Sharp Bros & Knight Ltd., Burton-on-Trent.

A new door catalogue, just issued, illustrates by photographs the types available, which are substantially conventional. Materials are named only for one pattern of door but illustrations indicate that panelled doors have Columbian pine or Douglas fir panels in the main, therefore suitable only for staining. Flush doors appear to have similar faces of birch, alder or gaboony. Sizes and thicknesses are stated and include garage doors. All doors comply with the appropriate British Standard.

● **Electrical.** M. K. Electric Limited, Wakefield Street, Edmonton, London, N.18.

Leaflet 249 describes and illustrates a range of 20-ampere switches for water heating installations. These are available in square or narrow patterns with or without indicating light. Also issued is their Leaflet 250 showing a new, easier wired and handled plug in 13, 10, 5 and 2-amp sizes, available in brown or ivory.

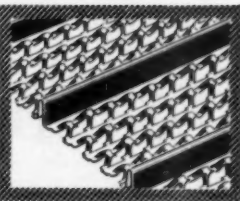
● **Concrete Buildings.** Portable Concrete Buildings Ltd., Ironstone Works, East Adderbury, Banbury, Oxon.

This company makes Banbury concrete buildings which include single garages, intended to be erected by unskilled labour, "battery" garages which have slab partitions and forward- or backward-sloping roofs, one range having wider centres of walls to suit the present trend for wider cars. Also available are buildings suitable for shops, pavilions, warehouses, chalets and halls.

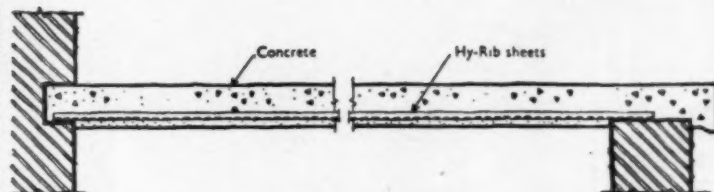
● **Tubeclamps.** Tubeclamps Ltd., 6 Lygon Place, London, S.W.1.

Tubeclamps has reissued their catalogue. Their products are sockets designed to slide over the ends of cut tubes, so as to link these in straight lines or tees or angles. The tubes are held securely in the Tubeclamps by grub screws tightened with a small key. Clamps are also made with holed ears for screwing to other structures. Staging, guard-rails, handrails, etc. can be quickly assembled and dismantled with a minimum of wastage. There is a large range of patterns, all being galvanized.

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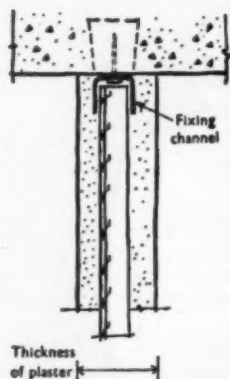


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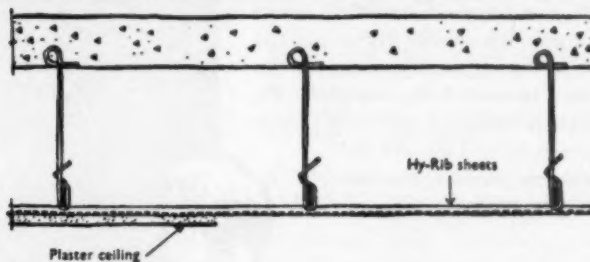
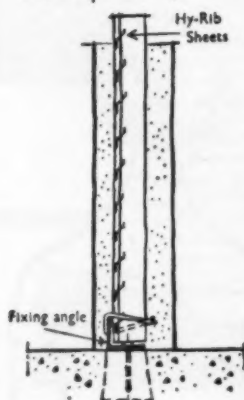
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Silence and hygiene—two vital factors in surgery. Runnymede Rubber plays its part in the approach corridors at this famous Hospital in Hammersmith. The sounds of footsteps and trolley wheels are reduced, and the staff find it a simple matter to maintain 100% cleanliness.

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RUBBER CO. LTD.**

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## Industrial Notes

● The Peterlee Development Corporation has awarded a £200,000 contract to Leslie & Co. Ltd., for the construction of a new factory. The contract includes a small two-storey office block, external works and access roads, and covers a total area of 60,000 sq ft. Completion is due in six months' time, when the factory will be occupied by Tudor Food Products. Architect for this new factory is Mr. W. J. Scott, F.R.I.B.A., chief architect to the corporation.

● We regret to record the death, on August 23, of Mr. Lionel M. Beaumont, chairman and managing director of Leonard Cooper Ltd., structural engineers, of Hunslet, Leeds. Mr. Beaumont was 79 years of age.

● Mr. J. L. Whittingham, managing director of J. Whittingham & Son, builders and contractors, of Bingley, Yorks, has been appointed a director of the Bingley Building Society in succession to the late Mr. T. R. Bailey.

● Mr. K. Neve, an executive director of Turners Asbestos Cement Co. Ltd., has been appointed to the board of Turner & Newall Ltd.

● Wellington Tube Works Ltd. show a net profit for the year ended June 30, 1959, of £501,073, compared with the 1958 result of £406,449. A final dividend of 20 per cent is to be paid, making a total distribution for the year of 25 per cent.

● Semtex Ltd. have recently completed a contract to lay 5,000 yd of Synthanite in Tube Investment House, Hagley Road, Birmingham.

Under an agreement with Morris de Leval, Semtex Ltd. were recently appointed sole U.K. distributors of Synthanite, which is a special type of synthetic anhydrite used for flooring and roofing purposes.

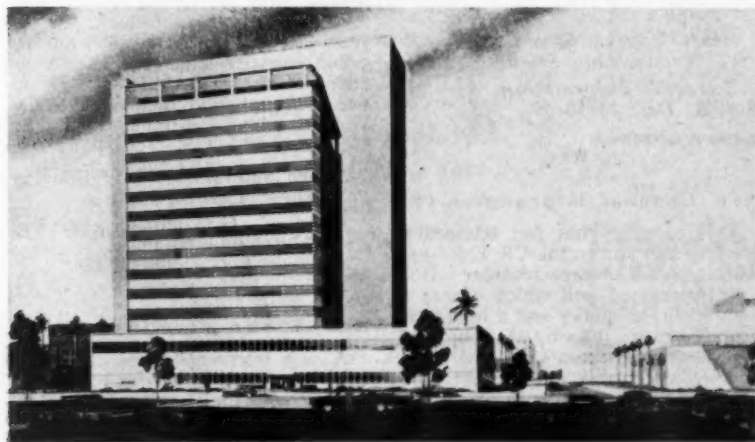
● The London office of British Industrial Plastics Ltd. has been moved to Haymarket House, 28 Haymarket, London, S.W.1 (telephone: Trafalgar 3121). Two of the group's subsidiary companies, B.I.P. Chemicals Ltd. and The Streetly Manufacturing Co. Ltd., have also moved their London sales offices to the same address.

● The Bristol branch office of the English Electric Co. Ltd. has moved to Equity and Law Building, 36/38 Baldwin Street, Bristol, 1 (telephone: Bristol 27304). The domestic appliance service depot remains at 155 White-ladies Road, Bristol, 8.

● The Hunter Group of companies has produced a film showing the Scaffspray scaffold painting machine (New Products, A. & B.N., May 21, 1958) working on a building site in London. The film and demonstration team will visit Birmingham (October 21), Leeds (November 4), Newcastle (November 18), Glasgow (December 2), and Bristol (December 16).

● The Dunlop Rubber Co. Ltd. are now occupying new offices at 23/24 King Street, London, S.W.1. The offices have been named St. James's House and are built on the site of the former St. James's Theatre. The company's head office, St. James's House at 25 Ryder Street, London, S.W.1, has been renamed Dunlop House.

*Williams & Williams Ltd. have secured a \$500,000 contract for the supply of more than 1,000 Wallspan curtain walling sections for the new 16-storey City Hall at Jacksonville, Florida, U.S.A. The units will be made at the company's Reliance Works, Chester, and consist of anodized aluminium, specially extruded to 9 in and 6½ in mullions, with spans of 19 ft 6 in and 12 ft 6 in*



● Mr. R. S. Reade, formerly export manager of M. W. Walker & Staff Ltd., has been appointed general manager of Goodenough Pumps Ltd.

● Mr. R. B. E. Jackson has been appointed marketing director of the Trades Division of Sissons Bros. & Co. Ltd. and is now operating from their Hull office. Under the sales director, he will be responsible for the development of consumer business.

● Mr. Peter Boyd-Cox, formerly press officer of the G.E.C. Lighting Division and the Osram Lamps Division of the General Electric Co. Ltd., has been appointed public relations officer of Electrolux Ltd.

● The Glass Mosaic Co., of 82-90 Seymour Place, London, W.1 (telephone: Paddington 3456), have been appointed sole distributors in Great Britain and Ireland of Sarma 4 in by 4 in vitreous mosaic tiles.

● The A.E.I. Lamp & Lighting Co. Ltd. have reduced the prices of their G.L.S. lamps. Typical examples of the new prices are: 150W, single coil, 2s 3d; 100W Netabulb, 1s 11½d; 100W coiled-coil, 1s 9d; 60W, coiled coil, 1s 6d.

● The General Electric Co. Ltd. have reduced the prices of their general purpose and G.L.S. lamps. Typical examples of the new prices are: 100W, single coil, 1s 8d; 150W, Silverlight, 2s 10d; 40W, coiled coil, 1s 6d. Some Osram special purpose lamps are to cost more including reflector spotlight and floodlight, infra-red reflector and neon lamps. Certain projector and photographic lamps are also to cost more.

● Dexion Ltd. have changed the names of two of their products. Tecton is the new name of the engineered wood beams previously known as Tecon, and Open Steel Plank replaces the name Multi-Purpose-Grid.

● Copperad Ltd., manufacturers of heating and ventilation equipment, have acquired the entire share capital of the Manwood Miller group of companies. The specialized equipment, electronic air cleaners, capillary air washers and centrifugal fans, produced by the Manwood Miller group in the fields of air conditioning and air ventilation, will be ancillary to the range of equipment manufactured by Copperad Ltd. The Manwood Miller works at Stalybridge, Cheshire, will continue to manufacture the existing range of equipment, which will be sold and publicized under the title: Manwood Miller Fans & Filters Ltd. incorporating Manwood Miller & Co. Ltd. and Fan Equipment Corporation Ltd. A "Copperad" Company.

## NEW PRODUCTS

*In this feature are reviewed new lines introduced to the building industry for the first time and additions or improvements to existing ones. Any advantages claimed for a product are from information supplied by the manufacturer*

### New Aluminium Window (A)

The Spinner window is an aluminium unit designed specifically for use in air conditioned buildings. It incorporates a double neoprene weather stripping into the moving frame so as to prevent the conditioned air from escaping into the outside atmosphere, whilst provision is also made for the window to be double glazed. The Spinner window is constructed in HE9/WP aluminium extrusions. A moving bar mechanism, operated by a removable key, is fitted

into the fixed outer frame. When the key is turned, the bar mechanism thrusts an aluminium channel into the outer frame firmly against the double neoprene seal. All four sides of the aluminium channel move simultaneously with one turn of the key. To reverse, the window spins about a central vertical pivot, hence the name of Spinner. Cleaning can be carried out from inside the building, for after cleaning the inside surface, the operator unlocks the window with the key, reverses and re-locks it in an inside-out position. The other side of the glass is then cleaned in complete safety from the inside with the minimum loss of conditioned air. As both sides of the moving frame are identical, it remains in the same position until due for the next clean. Illustrations show a vertical section of the window and the window and key in locked and unlocked positions.

Williams & Williams Ltd., 36 High Holborn, London, W.C.1.

Readers' Information Service, Ref. A. Date 14/10/59.

★

### New Metal Letters

This company is now producing a new series of metal letters for external use on buildings. They are a new Egyptian alphabet designed by Nicolette Gray and are illustrated in maker's list No. 371. In addition to the 26 letters of the alphabet there are numerals from 1 to 9, with 0 and the "&" sign. Only one size, 12in high by 1in thick, is made. Finish: Bronze, silver anodized aluminium, or aluminium anodized and primed for painting.

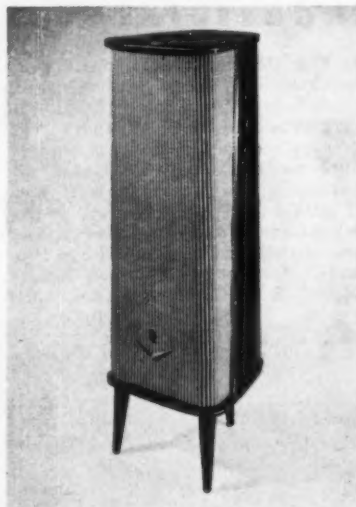
Henry Hope & Sons Ltd., Smethwick, Birmingham. Smethwick 0891.

Readers' Information Service, Ref. B. Date 14/10/59.

★

### New Channel Reproducer (C)

This company has just released a channel reproducer, the CR 1, for use with their TK 55 tape recorder. It is a self-contained unit which houses a high-fidelity amplifier and a high-flux, extended range, 10in by 5½in elliptical loudspeaker. Separate volume, bass and treble controls, and a mains on/off switch and pilot bulb are fitted. To give perfect stereo effect, a phasing switch is contained in the base of



C

the unit to allow correct phasing of the TK 55 loudspeaker and that of the CR 1. A connecting lead is included with the unit. Output: 3W approx. Measurements: 30in by 9½in by 9½in. Price: 23 gns.

Grundig (Great Britain) Ltd., 39/41 New Oxford Street, W.C.1.

Readers' Information Service, Ref. C. Date 14/10/59.

★

### New Water Storage Tank

This company is now marketing a 40 gallon water storage tank made from plastics reinforced with glass fibre. The tank is light in weight so that it can easily be placed in positions not normally accessible to heavy metal tanks, or where weight is a major consideration. The possibility of fracture due to frost or other temperature changes is stated to be eliminated. Drilling for any size of connecting pipe can easily be carried out without the use of taps and dies and the tank can be cleaned out by wiping with a damp cloth. The makers guarantee the tank for 10 years and hope that 20 gallon and 60 gallon capacity tanks will shortly be added to the range. The 40 gallon size measures 24in by 24in by 19in. Weight: 14lb. Finish: grey. Price: £6 15s.

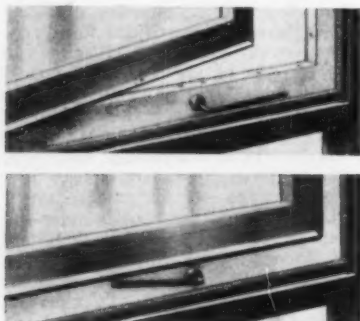
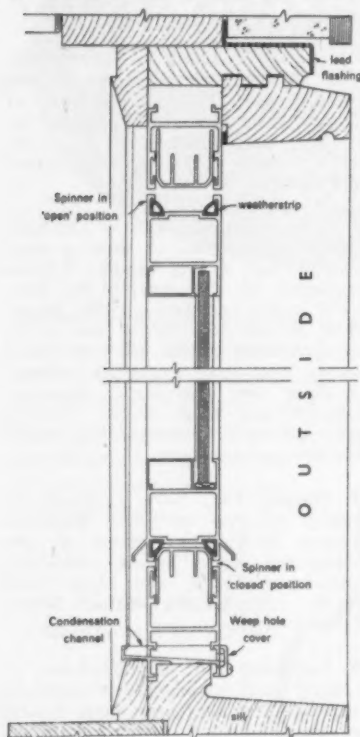
Sarena Sinks Ltd., 37/59 Islington Park Street, London, N.1.

Readers' Information Service, Ref. D. Date 14/10/59.

★

### New Floor-warming Cable

A new intermediate-size cable has been introduced by this manufacturer for use with the Calidex floor-warming system. The new cable is rated at 1.35kW and is 570ft long. It is



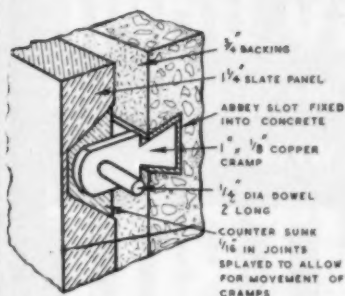
A

# Broughton Moor Light Sea Green Slate

lends added distinction to SHELL'S new headquarters at South Bank, London

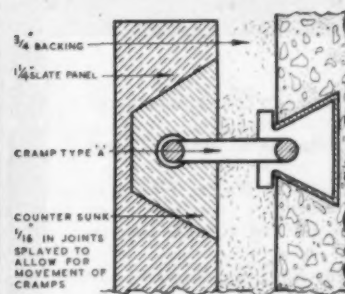


It was to be no ordinary building, and no ordinary facing slate would do. That is why Messrs. Easton and Robertson chose Broughton Moor Light Sea Green (frame sawn and finely rubbed). They know it to be the ideal slate for both internal and external facing. They know, too, that centuries hence it will be still sound and beautiful. Architects can specify Broughton Moor slate in three shades and a variety of delightful finishes. There is nothing quite like Broughton Moor for facings, pavings, steps, cills, pilasters, fireplaces and indeed, most architectural purposes.



## TYPICAL CRAMP

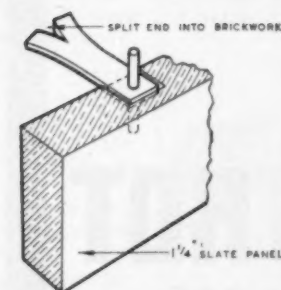
A 1" x 1/2" copper cramp is (a) dowelled into a 1/16" splayed countersunk in a panel of Broughton Moor slate, and (b) set into an Abbey slot in the concrete.



## CRAMP TYPE A



Splayed countersunk and swivel type cramp makes ample allowance for movement.



## CRAMP TYPE B Cramp and Pin

One end of 4"-long cramp is split for setting into brickwork. The other is drilled to receive 2" long pin.

# Broughton Moor

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THROUGH SUB-SOLID FLOORS

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*specify*

# VENTROT

*membrane D.P.C.*



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Brooks Fan-Powered Vertical Jet Roof Extract Units ensure positive ventilation of factories, foundries and kitchens—disperse smoke—smells—fumes high above roof level. Eliminates risk of exhaust re-entry into building or fresh air intakes and prevents harmful and corrosive elements attacking roof coverings. Capacities 800/23,000 C.F.M.

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**BRITAIN'S WIDEST RANGE OF POWERED VENTILATION UNITS**

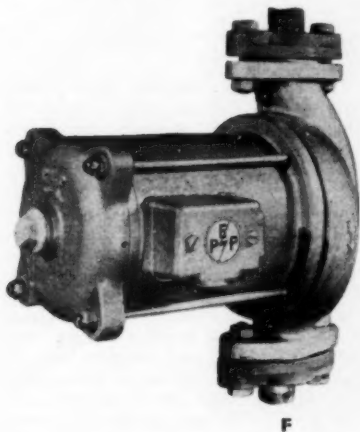
B.15

## NEW PRODUCTS (continued)

designed to fulfil a demand for a cable between the current sizes of 1kW and 1.7kW. It is fitted, as standard, with 12ft cold tails which are considered sufficiently long for all normal methods of connection to the control thermostat or other distribution gear. Longer cold tails can, however, be supplied if required. The new size of cable reduces the number of cables needed to provide the desired loading on a number of occasions, especially in domestic and other small area work, and also lowers the cost of both material and installation. Price £6 5s.

Calidec Ltd., Station Road, Dorrington, Warwickshire. Knowle 3535.

Readers' Information Service, Ref. E. Date 14/10/59.



**New Glandless Accelerator (F)**

The latest addition to the Pep range of precision pumps is a glandless accelerator, specially designed for use with small-bore heating systems. The Small Boar, as the new pump is known, is of the canned rotor, totally enclosed type and has windings suitable for either single- or three-phase supply. Three models are available, with current consumptions of 60, 75 and 100W. The Small Boar is supplied ready for installation in  $\frac{1}{2}$ in, 1in or  $1\frac{1}{2}$ in pipes and may be placed in either a vertical or horizontal pipeline, without the need for special supports. It is claimed to be quiet in operation and to require little attention once installed, since all the moving parts are lubricated by the heating water. For maximum efficiency it is desirable to fit the unit with the motor in the horizontal position so that any air is automatically discharged from the rotor housing. The pump can be speedily dismantled,

without being removed from the pipeline, by the removal of four nuts holding the motor and cap. The stator can then be taken from the pump body to allow the withdrawal of the rotor and impeller. A large version of the pump can also be supplied under the trade name of Full Boar. Models for  $1\frac{1}{2}$ in and 2in branch connections are already available and sizes from 3in to 6in are being prepared.

Precision Electrical Products (Stockport) Ltd., Lytham Street, Cale Green, Stockport.

Readers' Information Service, Ref. F. Date 14/10/59.

★

### Improved Impact Hammer (G)

A holding device, known as an Electrode Adaptor, has been designed and produced by this company for the purpose of enabling the electric Bosch impact hammer to drive in earth electrodes. It is claimed that this adaptation, which is now being used by the Eastern Electricity Board, will allow the hammer to drive electrodes into the ground to a depth of 20ft or more, with a penetration speed of one foot per minute. By using special inserts, the same Bosch tool can be used for chasing, drilling or breaking hard concrete. Using tungsten carbide drills, concrete of the heaviest aggregate can be penetrated at great speed, the automatic combined rotary and percussion movement allowing holes of up to 2in diameter to be drilled. The hammer is grease-packed so that no oil runs down on to the operator and vertical drilling can therefore be carried out. The hammer, type EW/UHD91/C1, has an electrical rating of 750W and delivers up to 5,000 impact strokes per minute. Models are available for either 110 or 220/250V A.C./D.C. Prices: £69 15s (complete with carrying case and accessories); electrode adaptor, £3 15s; transformer for converting 220/250V. A.C. supply to 110V, £16 17s 6d.

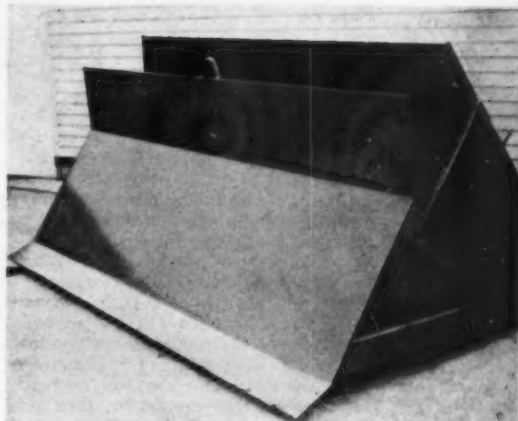
Trend Industrial Equipment Ltd., 77 and 95 Dudden Hill Lane, London, N.W.10. Willesden 4150.

Readers' Information Service, Ref. G. Date 14/10/59.

★

### New Type Bulldozer Blade (H)

This manufacturer has introduced a new type of bulldozer blade which is suitable for use with the Hydra-Digga/Loadall 65 and the Loadall 65 and 75. The blade fits over the standard full-width bucket (illustration) and is quickly and securely fixed by the insertion of two large section pins. This operation takes only 30



H

seconds and the machine is then ready for action as a bulldozer for back filling or site levelling.

J. C. Bamford (Excavators) Ltd., Lakeside Works, Rocester, Staffs. Rocester 371.

Readers' Information Service, Ref. H. Date 14/10/59.

★

### Sliding Window Hinge

The new No. 1959 Sliding Easy Clean hinge is the latest addition to the Crompton range of window furniture. It is designed for side opening wooden casement windows and allows the window to be cleaned



G

## NEW PRODUCTS (continued)

both inside and out from the inside of the room. In addition, the whole window can be detached, from the inside, by the removal of four small screws for repair or maintenance purposes. The hinge is made of steel and all moving parts are brass. The steel parts are zincplated and passivated as a rust preventative. When the window is closed the hinge is completely concealed, and when opened to its full extent there is a 4½ in wide gap between the sash and the window frame for easy cleaning. The hinge is so designed that the window sash fits securely into the frame, thus getting equal weather coverage top and bottom and also eliminating the possibility of the window sagging.

Thomas Crompton & Sons Ltd.,  
Ashton-in-Makerfield, Lancs.

Readers' Information Service,  
Ref. J. Date 14/10/59.



### Electronically Controlled Drill

An electronically controlled drilling machine has been developed which is capable of accurately positioning and drilling holes up to 2 in in diameter in thick steel. Known as the E.M.I./Wadkin Electronic Positional Drilling Machine Model TCD/1, the equipment has a large worktable measuring 3ft 6in by 5ft 6in. Unlike conventional drills it is not necessary to drill a pilot hole followed by a succession of larger ones, in fact, large holes can be drilled to a very fine tolerance in a fraction of the normal time. The machine is automatic and operates from either punched tape or dial settings. Neither marking out nor drilling jigs are re-



quired, and the control system incorporates a built-in computer. The price of the new machine is expected to be about £10,000.

E.M.I. Electronics Ltd., Hayes,  
Middlesex. Southall 2468.

Readers' Information Service,  
Ref. J. Date 14/10/59.

★

### New Unit Heaters (K)

This manufacturer has introduced a new unit heater range which operates on steam or on low-pressure or high-pressure hot water. Known as the Thermolier, the new range consists of five unit sizes covering a thermal output range of between 35,000 and 350,000 B.Th.U./hr and almost any required output between these two figures is possible. A thermostat can be fitted into the motor circuit if required. The louvers are individually adjustable to control the direction of the warm air stream and stops are fitted to prevent any excessive movement that might restrict satisfactory air flow. With quietness of operation in mind, anti-vibration mountings have been fitted to reduce noise to a minimum. It is stated that the motor has been specially designed for fan duty, and the fan to match the heat exchanger, so that the quantity and velocity of air give the maximum thermal efficiency. The unit is made from steel sheet on which high purity zinc is electrolytically deposited to provide resistance to corrosion. Finish: silver grey stove-enamelled paint with hammered finish.

Mather & Platt Ltd., Park Works,  
Manchester, 10. Collyhurst 2321.

Readers' Information Service,  
Ref. K. Date 14/10/59.

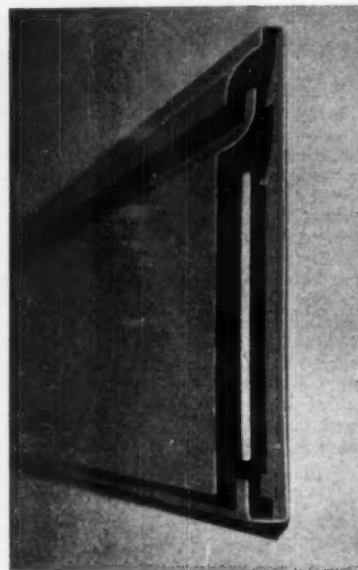
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### New Hammers (L)

A new series of hammers has been added to the Stanley range of hand tools. Like all Stanley claw and ball-pein hammers, the new Warrington hammers are fitted with Evertite processed handles, which are triple wedged with one wooden and two metal wedges, with the exception of the 8oz hammer which will only accommodate double wedging. The handles are of straight grained ash and are pre-shrunk and treated to make them impervious to water. The heads are forged from heat-treated, electrically melted, closely controlled steel. They are rim-chamfered to minimise the danger of chipping and hardened and tempered on the faces and peins. The four sizes of the Warrington hammer are 8oz, 10oz, 12oz, and 14oz. Prices range from 7s 6d for the 8oz to 8s 6d for the 14oz hammer.

Stanley Works (G.B.) Ltd., Rutland  
Road, Sheffield, 3. Sheffield 25380.

Readers' Information Service,  
Ref. L. Date 14/10/59.

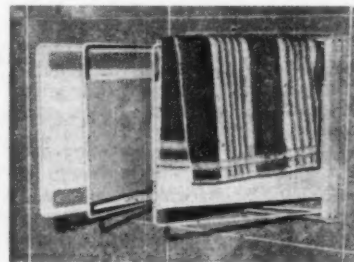


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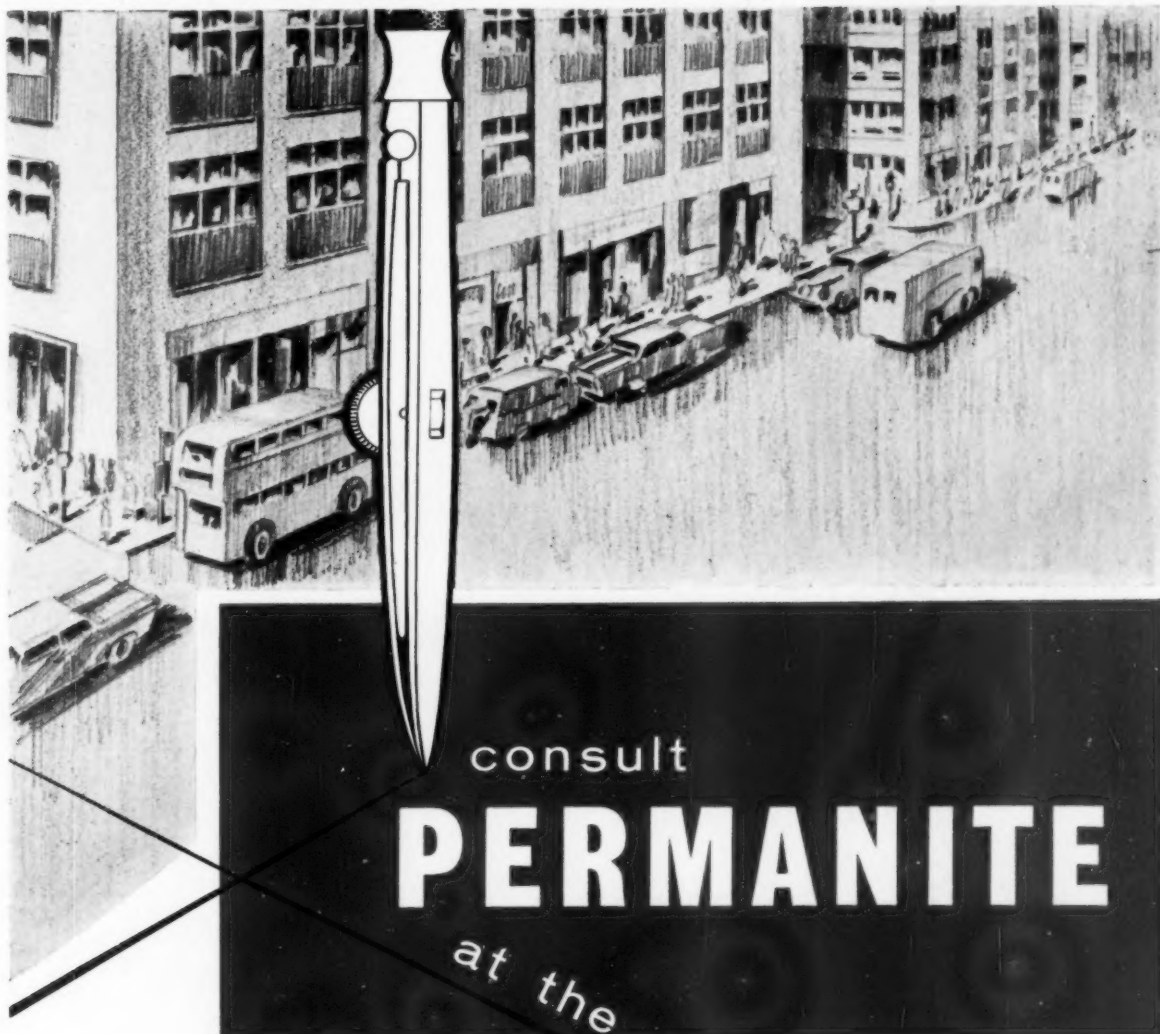
### New Plastics Heating Element (M)

This company has been formed with the object of marketing a range of domestic appliances which use a new and revolutionary means of heating—an electrically energized plastic element. Savage & Parsons Ltd. are manufacturing the first two appliances for Inference Ltd., and these are an electric skirting board and clothes-dryer-cum-bathroom-heater. The skirting board is available in 2ft and 3ft lengths with a height of 7in. Other heights will be available later, and special designs and heights will be made to order. The board has an output rating of 60W per ft run and costs 19s per ft. The new clothes dryer is a wall-mounting unit which takes up remarkably little space when closed. When opened out, it has four panels for hanging clothes and each panel encloses a 150W element. It is claimed that there is no risk of fire or scorching of clothing and that the dryer can be fixed safely over a bath. Colours: white, pink, blue, and yellow. Dimensions: 1ft 10½ in high by 2ft 1½ in wide by 2in deep. Price: £24 5s (including P.T.). Both products will be on the market by mid-November.

Inference Ltd., Camberley, Surrey.  
Readers' Information Service,  
Ref. M. Date 14/10/59.



M



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at the  
planning stage

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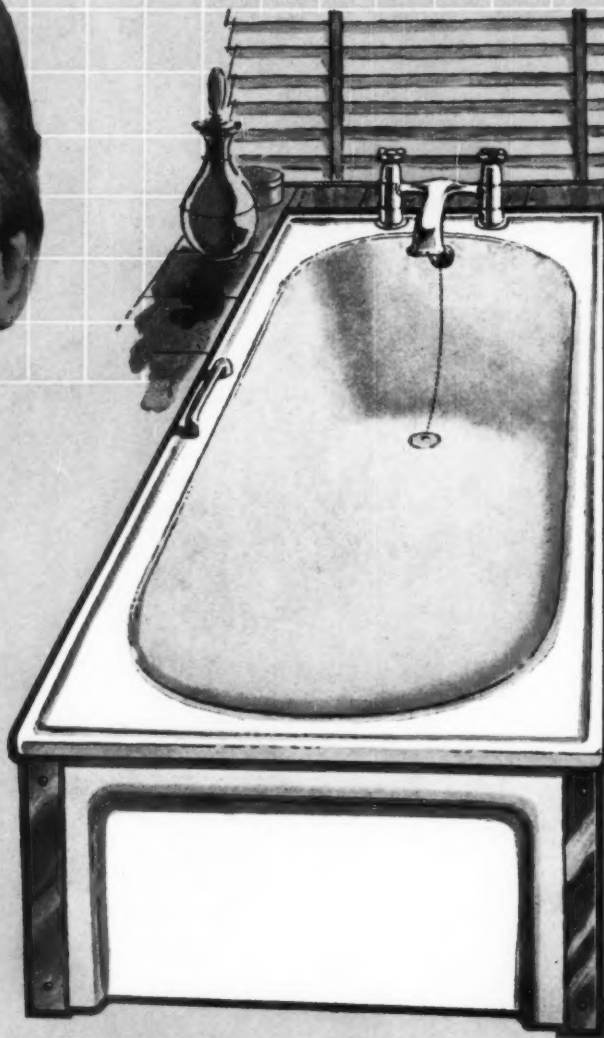
G

# Question of bath room?



## ALLIED *Vogue* answers it beautifully

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that its final users will applaud your choice.

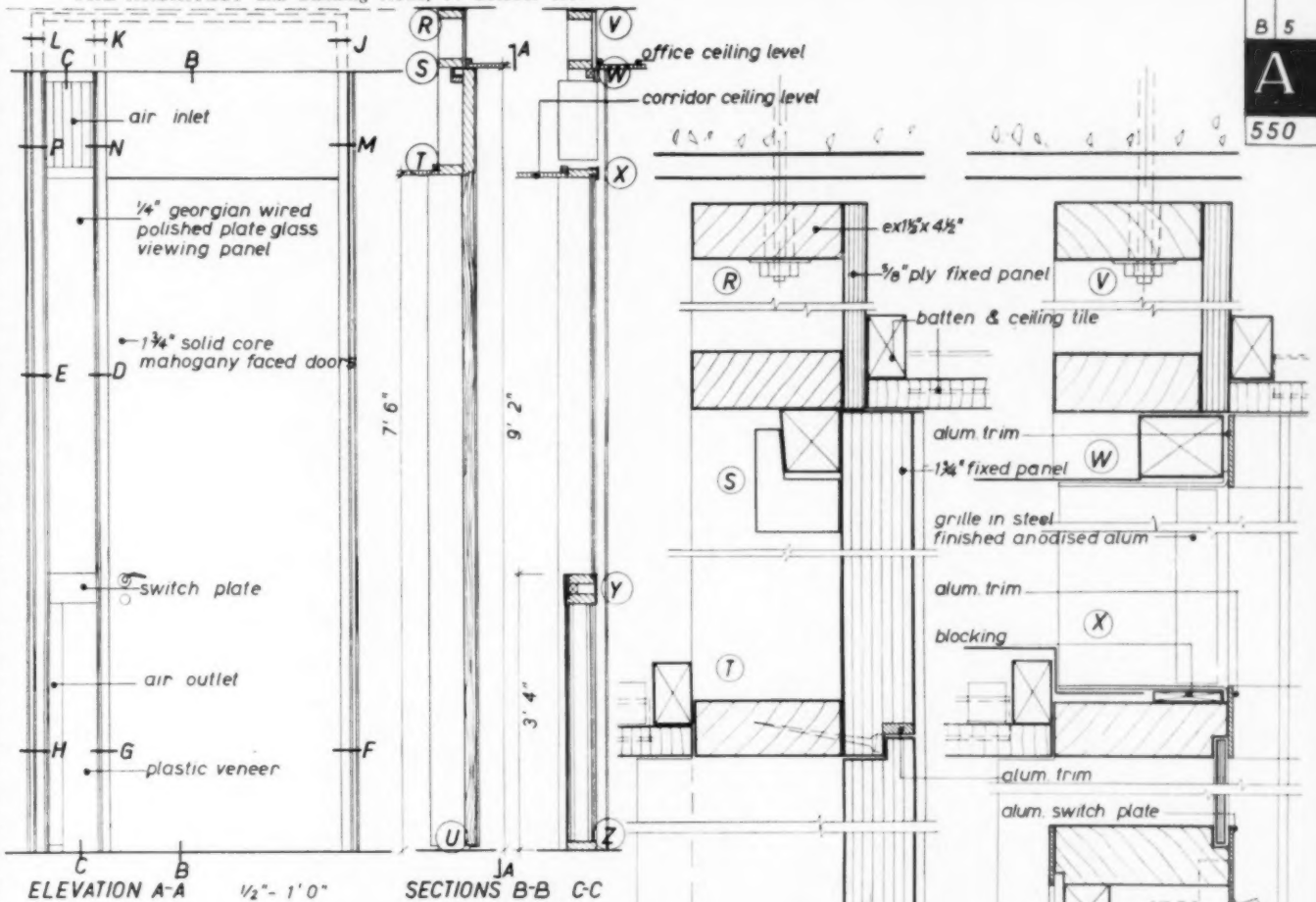
Obtainable in the colour-scheme shade you want, the Vogue is both beautiful and budgetable. Please write for literature.

*Allied Ironfounders Ltd.  
Bath Division, Greenford, Middx.*



**ALLIED**

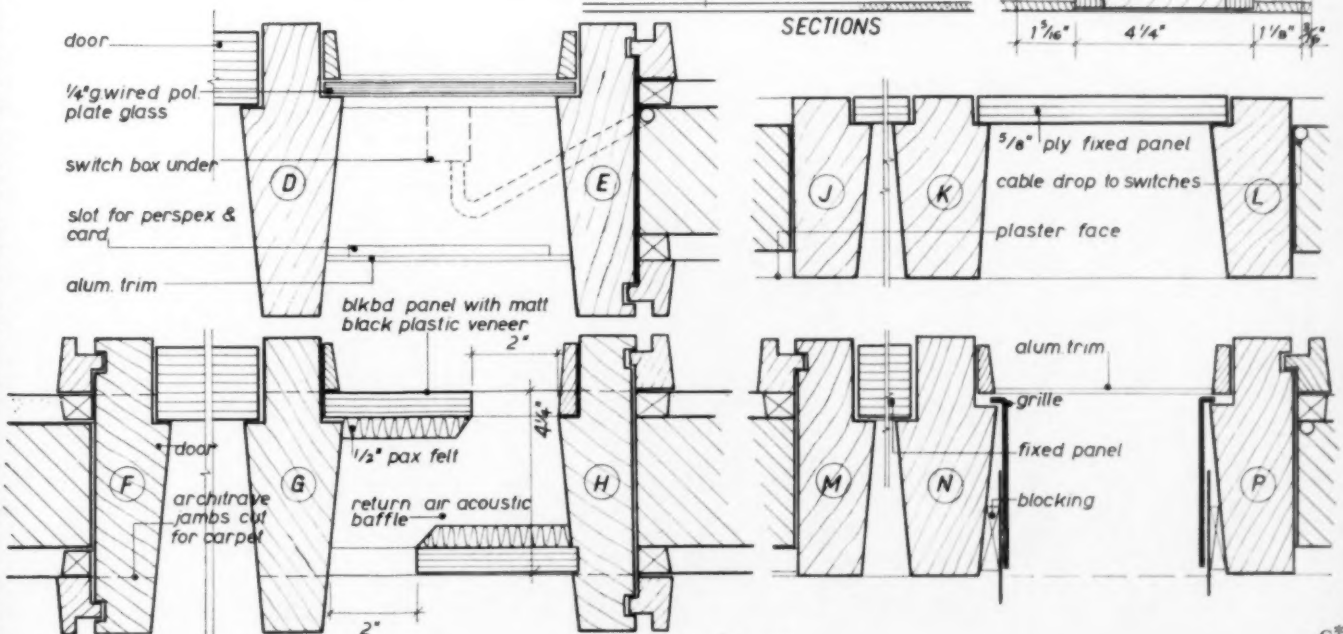
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1 3/4" solid core door lipped all round & veneered

skirting line

architrave & jamb cut back for carpet

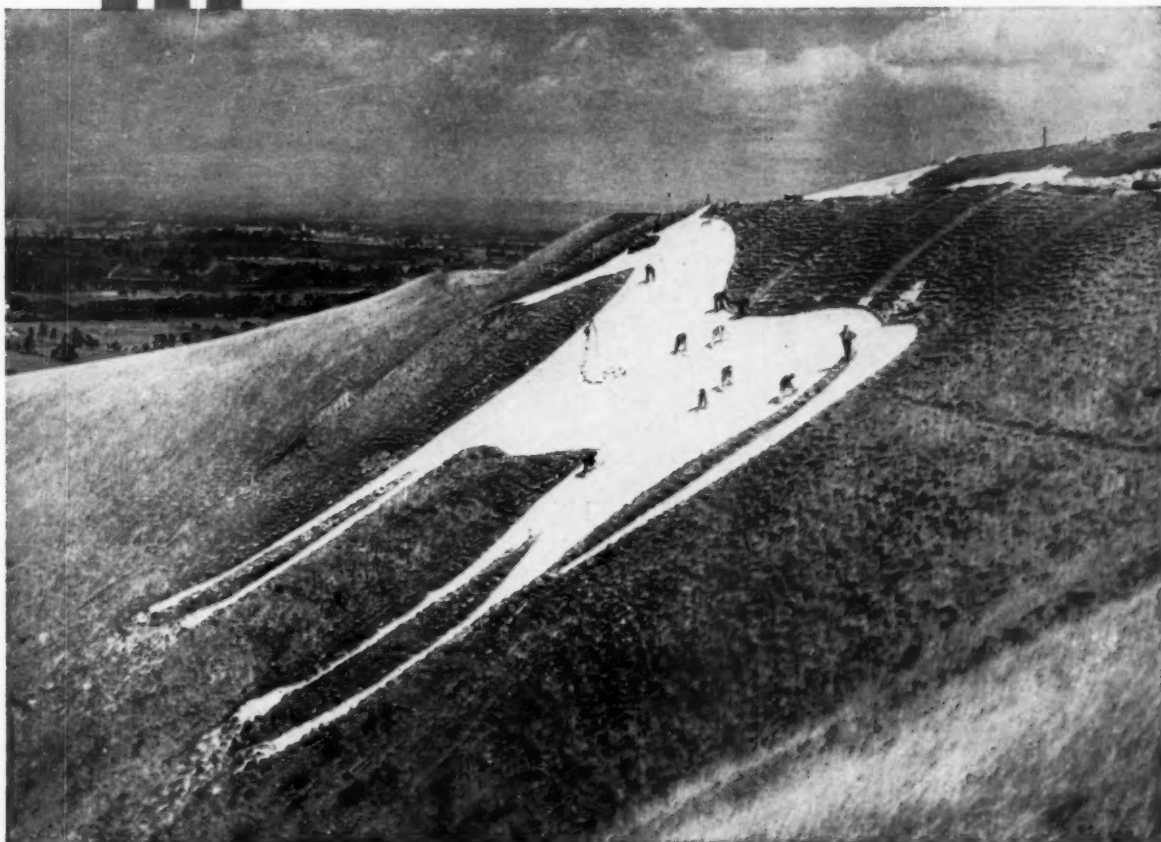




The interest in this door detail in the offices for the Gulf Eastern Company, Portman Street, London, lies in the way the side panel has been used to accommodate air-conditioning grilles, light switches and room number plates. The photographs show the door from both sides. The level of the corridor ceiling is below that of the rooms, forming a duct, and air intake grilles are placed at the top of the panels. The lower half of the side panel is lined with black felt and forms a baffle through which air passes into the corridor which acts as a return air duct. This panel is faced with a black plastic veneer. The inlet grille is in steel finished matt black, the doors are faced in mahogany, with door furniture, room number plates and switch panels in anodized aluminium. The architects are Fry, Drew, Drake and Lasdun

DOOR DETAIL, OFFICES  
PORTMAN STREET, LONDON

## The White Horse of Westbury\*



\* When the Ministry of Works recently decided to re-surface the famous White Horse of Westbury, Tunnel White Portland Cement was used. This monument, which commemorates the victory of Alfred the Great over the Danes at Ethandune in the year 878, is now permanently white. The periodic re-cutting of the chalk is no longer necessary.

For full particulars of Tunnel White Portland Cement and our wide range of Coloured Cements please write to our head office.



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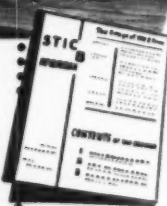
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Notes below give basic data of contracts open under locality and authority which are in a bold type. References indicate: (a) type of work (b) address for application. Where no town is stated in the

## CONTRACT • NEWS •

OPEN

### BUILDING

**ALDRIDGE U.C.** (a) Erection of 62 garages on Leighwood estate. (b) Engineer and Surveyor, The Poplars, 9 Leighwood Road, Aldridge, Staffs. (c) 2gn. (e) October 23.

**ANTRIM C.C.** (a) Erection of an intermediate school at Crumlin. (b) W. H. Stephens & Sons, 13 Donegall Square North, Belfast. (c) £5. (e) October 19.

**BEAMINSTER R.C.** (a) Erection of six flats and one house, Fleet Street. (b) Engineer and Surveyor, Town Offices, Beaminster, Dorset. (e) November 4.

**BIDEFORD B.C.** (a) Construction of a cattle market at Hansons Field, together with roads, drainage and car parks. (b) Borough Surveyor, Municipal Offices. (c) 3gn. (e) October 30.

**BIRMINGHAM C.C.** (a) (1) Contract 657. Erection of 30 houses at Hamstead Hall Road. (2) Contract 686. Erection of 14 bungalows at Friary Road, Handsworth Wood. (b) City Architect, Civic Centre 1. (c) 2gn each contract. (e) November 2.

**BRISTOL C.C.** (a) Preparation of Stockwood housing site, section 3. The work includes construction of 80,000 sq yd of reinforced concrete roads, 3,000 sq yd of tarmacadam roads, including kerbing and channelling, and 21,000 lin yd of sewers from 6in to 24in diameters. (b) City Engineer's Office, Cabot House, Deanery Road, Bristol, 1. (c) 2gn, by cheque payable Corporation of Bristol. (e) October 30.

**CARMARTHEN R.C.** (a) (1) Four houses at St. Cleers; (2) Four houses, two bungalows and site works at Crych-lau, Abergwili; (3) Re-plastering of houses at Maosolbri, Llanybri; (4) Coal sheds at Is-y-llan, Llanddarog. (b) Surveyor, 3 Sprilman Street, Carmarthen. (c) 2gn. (e) October 21.

**CHRISTCHURCH B.C.** (a) Erection of two pairs of four-bedroom houses at Dorset Road. (b) Messrs. Ceens & Cross, Metropole Chambers, The Lansdowne, Bournemouth. (c) 2gn. (e) October 27.

**DEWSBURY B.C.** (a) Four lock-up shops of timber construction on brick base in the Open Market. (b) Borough Architect and Buildings Surveyor, Town Hall. (e) October 26.

**EAST RIDING OF YORKSHIRE C.C.** (a) Erection of a workshop block at South Hunsley County Secondary School, Brough. (b) County Architect, County Hall, Beverley. (c) 2gn. (e) November 3.

**EIRE, CORK.** (a) Remodelling of premises at Lectrim Street, Cork, for the Cork Blood Transfusion Service. (b) Chillingworth & Levice, 11 South Mall, Cork. (c) £10. (e) October 17.

address it is the same as the locality given in the heading (c) deposit (d) last date of application (e) last date and time for submission of tenders. Full details of contracts marked \* are given in the advertisement section.

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**EIRE, CORPORATION OF SLIGO.** (a) Laying of 680yd of 6in water main in the town of Sligo, for Corporation of Sligo. (b) Mr A. G. Jennings, O'Connell Buildings, Sligo. (c) 10gn. (e) November 13.

**EIRE, CO. DUBLIN.** (a) Construction of the ring road between the Long Mile Road and the Mass Road dual carriageway at Drimnagh. (b) City Treasurer, Exchange Buildings, Lord Edward Street, Dublin. (c) 5gn. (e) November 3.

**EIRE, CO. GALWAY.** (a) Carrying out repairs to St. Mary's Church, Mountbellow, Galway. (b) Arthur H. Lardner, 52 Fitzwilliam Square, Dublin. (c) £10. (e) October 25.

**EIRE, LOUTH C.C.** (a) Erection of 12 two-storey semi-detached houses at Dunleer for Louth County Council. (b) C. O. Cleirachain, Secretary, County Offices, Dundalk. (Each application must be accompanied by a fee of five shillings.) (c) 5gn. (e) October 24.

**EIRE, MAAS, U.D.C.** (a) Erection and completion of 16 houses and development and incidental works at Kilcullen Road, Maas, Co. Kildare, for Maas Urban District Council. (b) Messrs. McCormack & Keane, 4 Upper Fitzwilliam Street, Dublin. (c) 10gn. (e) October 30.

**EIRE, SHANNON AIRPORT.** (a) Erection and completion of 4 Factory Bays at Shannon Airport, Co. Clare, for the Shannon Free Airport Development Co. Ltd. Mr. Dermot J. O'Brien, 87 O'Connell Street, Limerick. (c) £26. (e) October 23.

**EIRE, TUAM.** (a) Proposed additions and alterations to Bon Secours Hospital, The Grove Nursing Home, Tuam. (b) Mr. D. J. O'Brien, 87 O'Connell Street, Limerick. (c) 10gn. (e) October 30.

**ELLESMERE PORT B.C.** Amended advertisement. Contract 274. (a) Construction of one block of four one-bedroom dwellings at Grafton Road, with ancillary works. (b) Engineer and Surveyor, Queen Street, Ellesmere Port, Ches. (e) October 26.

**FLINTSHIRE C.C.** (a) Erection of sub-divisional police headquarters and court-houses at Flint. (b) County Architect, Llwynegryn, Mold. (c) 3gn. (e) November 2.

**FORT WILLIAM B.C.** Development No. 1. (a) Erection of three tenement blocks with attached cottages (46 houses in all), at Claggan site. All trades separately. (b) Town Clerk, Fort William.

**HUDDERSFIELD B.C.** (a) Erection of 200 dwellings, The Deighton Estate. (b) The Borough Architect, High Street Buildings. (c) 2gn. (e) November 12.

**HUDDERSFIELD B.C.** (a) Erection of a war memorial and public conveniences at Paddock Head. (c) 1gn. (e) October 20.

**ISLE OF ELY C.C.** (a) Construction of first instalment of permanent buildings for the Witchford Court secondary school on the existing hutted site near Ely. (b) County Architect, County Hall, March, Cambs. (c) 2gn. (d) October 16.

**LISBURN R.C.** (a) Erection of 150 houses, construction of roads and ancillary works at Milltown, Dorriaghty, Co. Antrim. (b) Architect, 5 University Terrace, Belfast. (c) 10gn. (e) October 19.

**LIVERPOOL C.C.** (a) (1) Erection of 386 dwellings at Bluebell Lane estate; (2) 77 dwellings at Greenhill Nurseries, Liverpool, 19; (3) Shops, flats and assembly hall, Sparrows Hall estate; (4) Eight flats, Quarry Street, Woolton; (5) 16 flats, Lyon Street, Garston, 19; (6) Paving, walls, etc., to central shopping area, Kirkby estate; (7) Paving to central shopping area, Speke estate; (8) Access road and sewer, Speke estate. (b) City Architect and Director of Housing, Blackburn Chambers, Dale Street, Kingsway, Liverpool, 2. (c) Separate deposit of 2gn each. (e) October 22.

**LUTON B.C.** (a) Construction of a car park adjacent to Crawley Road, including site clearance and demolition work, surface water drainage, hardstanding, etc. (b) Borough Engineer, Town Hall. (c) 2gn, cheque payable "Luton Corporation". (e) October 26.

**LUTON B.C.** (a) Supplying and fixing suspended ceilings at Ashcroft and Lewsey C.S.M. schools. (b) Borough Architect, Town Hall, Luton. (c) October 27.

**MAIDENHEAD B.C.** (a) Contract 6a. Erection of three blocks of ten two-storey single-bedroom flats for elderly persons on the Ray Park Lane. (b) Borough Engineer and Surveyor, 14 Crauford Rise, Maidenhead. (c) 2gn. (e) November 9.

**NORTH RIDING OF YORKSHIRE C.C.** (a) Erection of six firemen's houses and construction of a drill yard and tower at Malton. (b) County Architect, County Hall, Northallerton. (c) 2gn. (e) November 2.

**RIPLEY U.C.** (a) Erection of 14 houses at Cedar Avenue. (b) Mr H. Hillier, Surveyor, Town Hall, Ripley, Derby. (c) 2gn. (e) November 2.

**SOWERBY BRIDGE U.C.** (a) 48 garages and site works, Beechwood Avenue. (b) Engineer and Surveyor, Beech Royd, Beech Road. (c) 2gn. (e) October 19.

**STOCKPORT B.C.** (a) Erection of a three-storey office block with semi-basement comprising 9,600 sq ft and site works. Reinforced-concrete frame, art stone cladding, flat asphalt roof, electric floor heating. Situated at St. Petersgate. (b) Borough Architect, Town Hall. (c) 2gn. (e) November 12.

**YORK C.C.** (a) Erection of a children's day nursery extension, Health Services Centre, Cornlands Road, Acomb. (b) City Architect, 8 St. Leonard's Place, York. (c) 2gn. (e) October 23.

## PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

**ATOMIC ENERGY AUTHORITY.** (1) Stores building. (2) Radio Chemical Research Centre, Amersham. (3) W. Lawrence & Son Ltd., 31 Sun Street, Finsbury, E.C.2. (4) £50,000.

**BARKING.** (1) Warehouse, offices, etc., for Watts Fincham Ltd. (2) Thames Road. (3) J. & R. Roof Ltd., 679 Barking Road, London, E.13. (4) £170,000.

**BEDFORD.** (1) Bus station. (2) Gwyn Street. (3) S. G. Sale & Co. Ltd., Northampton. (4) £50,000.

**BRADFORD.** (1) 30 dwellings for Sutton Dwellings Trust. (2) Dick Lane. (3) Walter G. Birch (Harrogate) Ltd., Montpellier House, Harrogate.

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**BRISTOL.** (1) Seven-storey office building. (2) Junction of Baldwin and Queen Charlotte Street. (3) Holland & Hannen and Cubitts Ltd., 1 Queen Anne's Gate, London, S.W.1.

**BRITISH RAILWAYS.** (1) Modernising the railway station. (2) Broxbourne. (3) W. & C. French Ltd., Buckhurst Hill, Essex. (4) £140,000.

**CENTRAL ELECTRICITY GENERATING BOARD.** (1) Foundations for new power station. (2) Richborough, Kent. (3) J. L. Kier & Co. Ltd., 7 Lygon Place, London, S.W.1. (1) Superstructure of new power station. (2) Padiham, Lancs. (3) M. J. Gleeson (Contractors) Ltd., Sheffield and North Cheam, Surrey. (4) £1,250,000.

**CROYDON.** (1) Twelve-storey block of offices. (2) Junction of Walpole Road and Lansdowne Road. (3) George Wimpey & Co. Ltd., Hammersmith, W.6.

**DEWSBURY B.C.** (1) 74 dwellings, roads and sewerage. (2) Eastbourne redevelopment area. (1) 75 dwellings. (2) Spen Valley Road. (3) Harlow & Milner Ltd., 33 Warrington, Wakefield. (4) £89,680 and £129,339.

**HALIFAX.** (1) New factory for Remploy Ltd., London, S.W.1. (3) Taylor Woodrow Ltd., Western House, Western Avenue, London, W.5.

**HATFIELD NEW TOWN.** (1) 145 houses, 22 bungalows, 52 garages. (2) Oxlease "C" area. (3) C. Bryant & Son Ltd., Whitmore Road, Birmingham, 10.

**KING'S LYNN.** (1) New factory for Dow Agrochemicals Ltd. (3) Kyle Stewart (Contractors) Ltd., Wembley, Middlesex. (4) £300,000 (first phase).

**LANCASHIRE.** (1) Erection of a prison. (2) Hindley, near Wigan. (3) Sir Lindsay Parkinson & Co. Ltd., 6 Lambeth Road, London, S.E.1.

**LEYTON B.C.** (1) 134 dwellings. (2) Crescent Road. (3) J. & J. Dean Ltd., Ruckholt Road, London, E.10. (4) £325,700.

**LLANELLY, S. WALES.** (1) New factory for Crawley Industrial Products Ltd. (3) William Cowlin & Son Ltd., Cardiff. (3) £500,000.

**LONDON E.C.** (1) Multi-storey car park, workshops, showrooms, etc. (2) Aldersgate Street, E.C. (3) The Russell

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**LONDON E.C.** (1) Extensions. (2) Moorfields Eye Hospital, City Road. (3) William Willett Ltd., Sloane Square, London, S.W.1. (4) £118,000.

**LOWESTOFT B.C.** (1) 66 dwellings and other works. (2) Park Road redevelopment area, etc. (3) W. Ames Ltd., North River Road, Great Yarmouth. (4) £107,209.

**NATIONAL COAL BOARD.** (1) Pit-head baths. (2) Bingham, Notts. (3) George Wimpey & Co. Ltd., Hammersmith, W.6. (4) £250,000.

**NORTHERN IRELAND HOSPITALS AUTHORITY.** (1) Erection of a new hospital. (2) Enniskillen, Co. Fermanagh. (3) H. & J. Martin Ltd., Ulster Building Works, Ormeau Road, Belfast.

**THE NORTH THAMES GAS BOARD.** (1) Large research department. (2) Carnwath Road, London, S.W.6. (3) Trollope & Colls Ltd., Noble Street, Gresham Street, E.C.2. (4) £1,250,000.

**SHEFFIELD C.C.** (1) Redevelopment of Woodside-Pitsmoor area with 513 dwellings. (3) George Wimpey & Co. Ltd., Hammersmith, London, W.6. (4) £1,376,197.

**STEVENAGE NEW TOWN.** (1) 190 houses, 22 flats. (2) Bedwell Plash. (3) R. Marriott Ltd., Rushden, Northants. (4) £420,000.

**STOCKSBRIDGE.** (1) 111 houses. (2) East Whitwell estate. (3) Selleck, Nicholls & Co. Ltd., St. Austell, Cornwall. (4) £136,743.

**SUNDERLAND B.C.** (1) 336 houses. (3) L. W. Evans (Contractors) Ltd., Sunderland. (4) £399,405.

**SWANSEA B.C.** (1) Erection of a students' hostel. (2) Swansea Training College. (3) Bennett Bros., Carlton Terrace, Swansea. (4) £60,992.

**WEALDSTONE.** (1) Shops and offices. (2) Headstone Drive. (3) Ford & Walton Ltd., Warton Road, London, E.15.

**WIMBLEDON B.C.** (1) Crematorium, etc. (2) Randall's Park estate, Leatherhead. (3) T. R. Roberts (Builders) Ltd., London, S.E.23. (4) £57,169.

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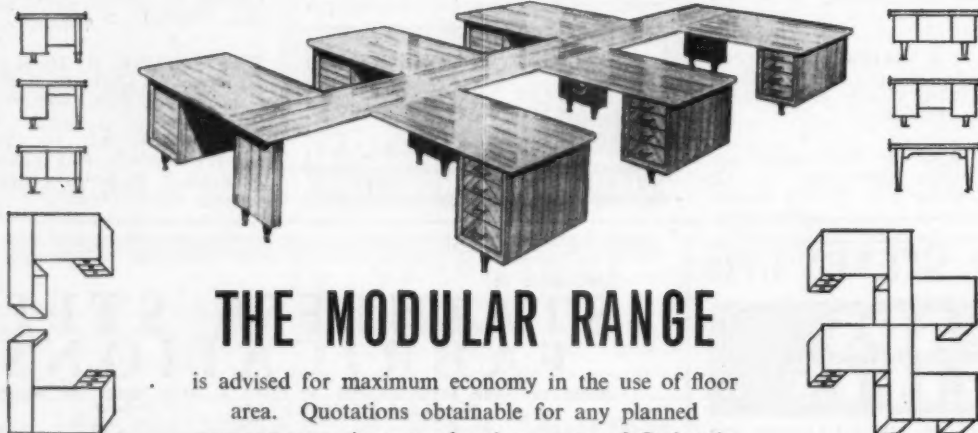
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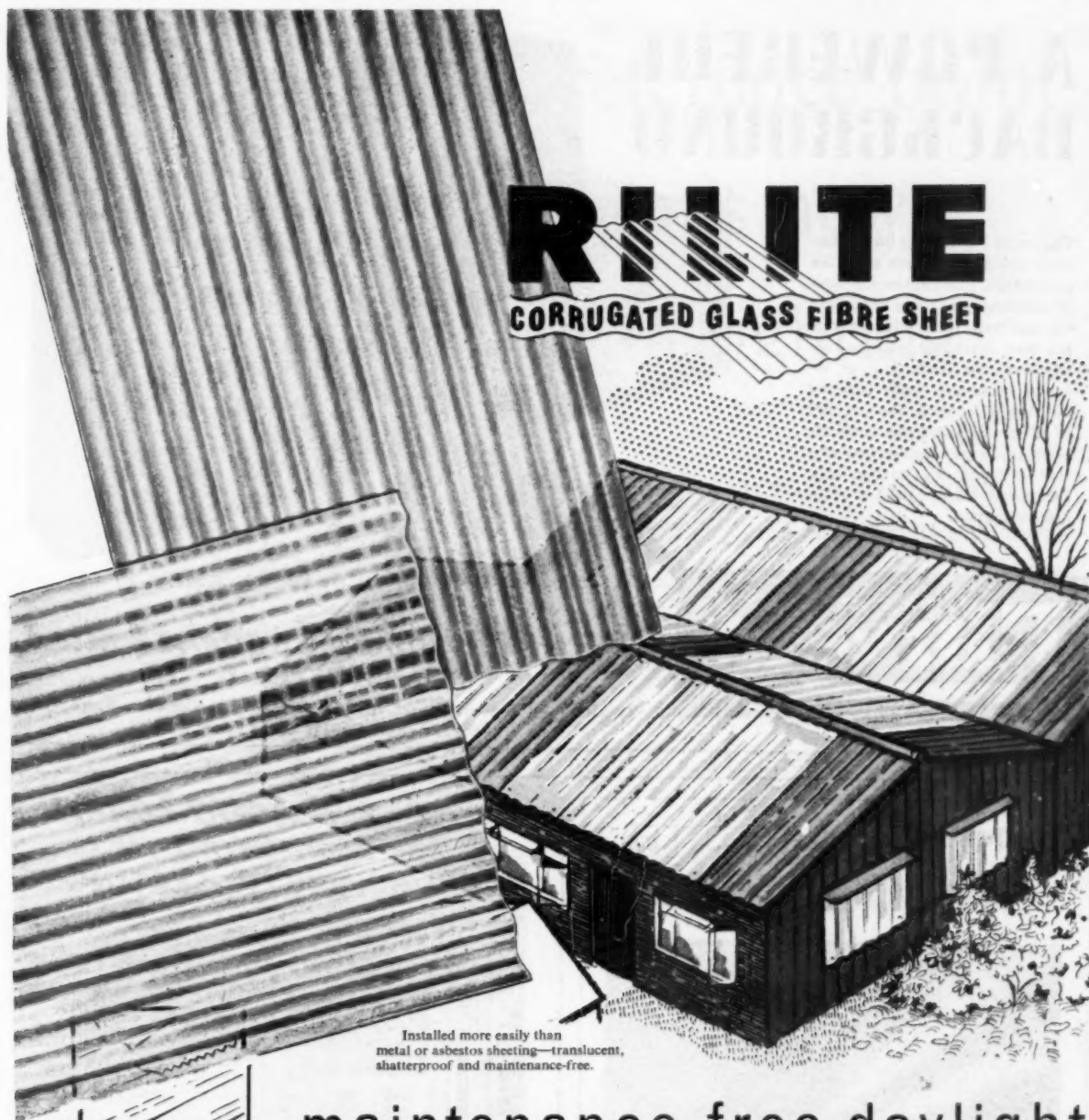
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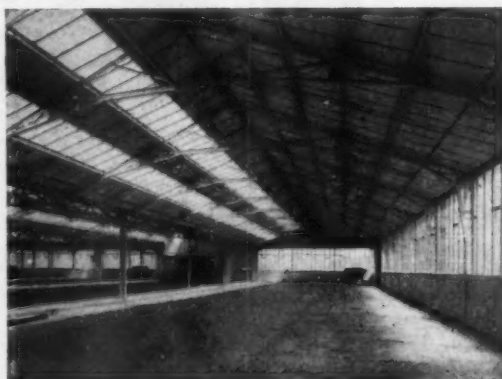


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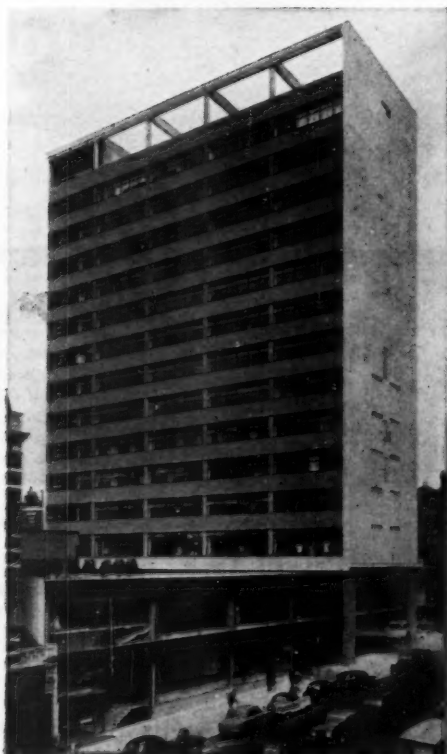
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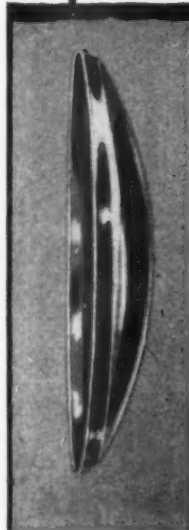
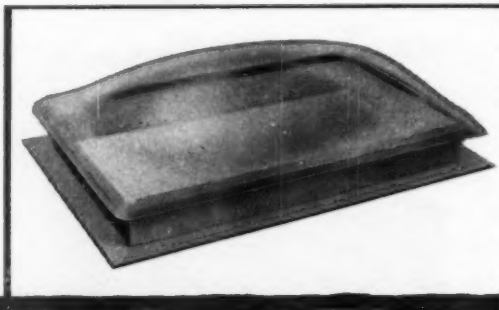
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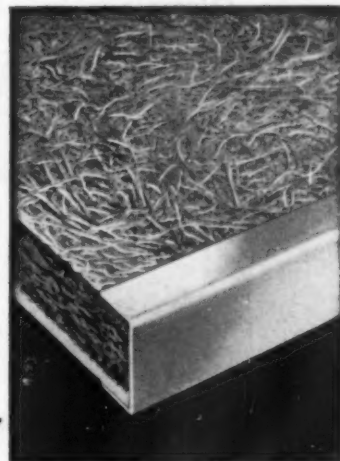
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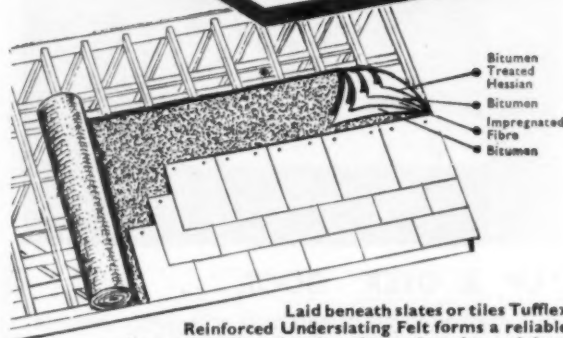
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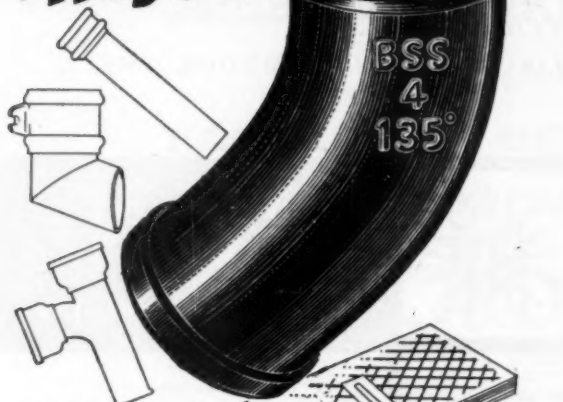
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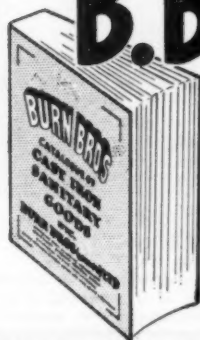
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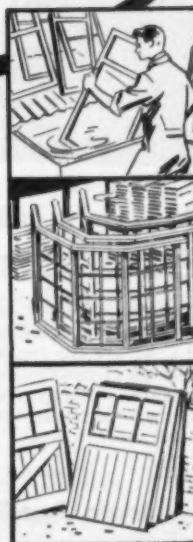


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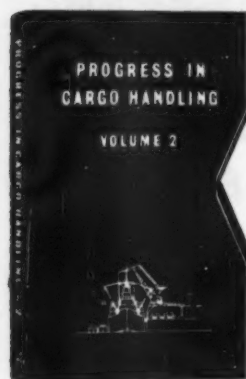
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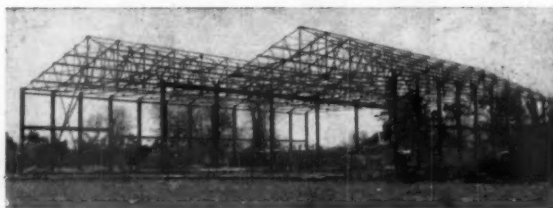


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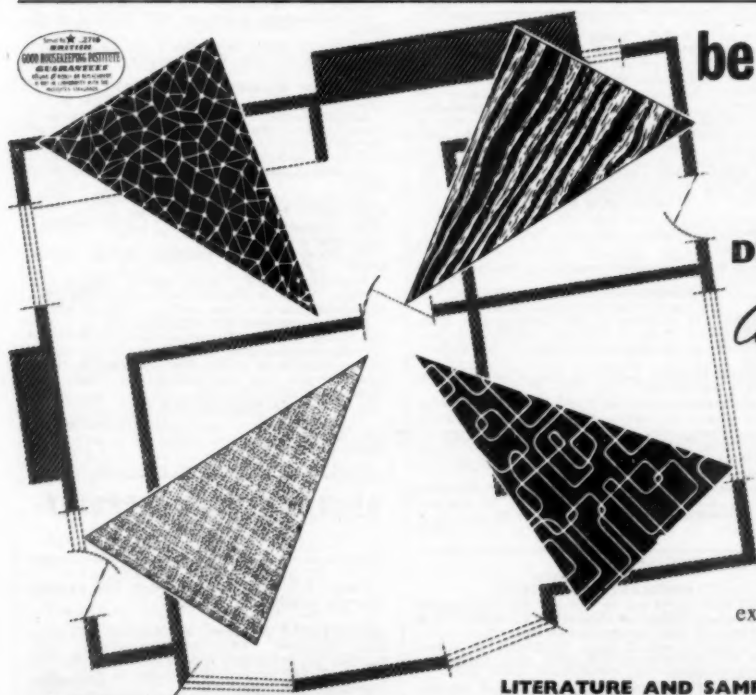
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### APPOINTMENTS

**West Sussex County Council**  
APPLICATIONS are invited for the under-mentioned appointment in the County Planning Department, County Hall, Chichester:

**TECHNICAL ASSISTANT (Architectural)**  
Salary: for qualified persons—Special Scale (£785 x £40—£1,070 p.a.) otherwise APT Grade II (£765/£880 p.a.).

The duties of the post will include the preparation of redevelopment schemes and designs relating to development control. Preference will be given to applicants able to prepare perspectives and freehand sketches.

Application forms and further particulars may be obtained from Mr. John C. Jefferson, County Planning Officer, County Hall, Chichester, to be returned by Saturday, October 31, 1959. [5656]

### Beeston and Stapleford Urban District Council CHIEF ASSISTANT ARCHITECT

APPLICATIONS are invited for the above appointment at a salary in accordance with APT Grade IV (£1,065/£1,220).

Candidates should be Associates of the R.I.B.A. Housing accommodation will be provided, if necessary.

The post advertised offers interesting work in connection with the Council's housing programme, swimming pool and other building work.

Applications, stating age, qualifications, with full details of training and experience, accompanied by the names of two referees, must be received by the Housing Architect, Town Hall, Beeston, Nottingham, not later than October 19, 1959.

H. D. JEFFERIES,

Clerk. [5662]

### Isle of Man Local Government Board APPOINTMENT OF ASSISTANT ARCHITECT

APPLICATIONS are invited for the above appointment in the Architect and Planning Officer's Department in the salary range of £850/£1,070, point of entry depending upon experience. APT Grades are not applicable to the Isle of Man.

Part removal expenses to the value of 60 per cent for furniture and personal effects will be borne by the Board to the Island. The post carries a non-contributory pension.

Candidates should be Associates of the Royal Institute of British Architects with suitable office experience.

Applications stating age, experience, details of present and former employment and names and addresses of two referees should be forwarded to the undersigned so as to reach him not later than Friday, October 30, 1959.

W. H. KARRAN,

Secretary to the Isle of Man Local Government Board,  
6 Mount Havelock,  
Douglas, Isle of Man. [5654]

**Northern Polytechnic, Holloway, London, N.7**  
THE Governing Body invite immediate applications for the post of Senior Lecturer on Building Subjects to commence in April, 1960. Applicants should have had experience in the building industry or an allied profession and be qualified by examination as Associates of the Institute of Builders, or the Royal Institution of Chartered Surveyors or other appropriate body. Teaching experience is desirable. Salary scale: £1,550 x £50—£1,750, together with allowances in accordance with the Burnham Award.

Form of application and further particulars will be sent on request to the Clerk to the Governors. [5670]

### County of Angus

APPLICATIONS are invited from qualified Architects under the age of 46 for appointment as County Architect and Planning Officer with the County Council of Angus.

The salary scale will be £1,890 rising to £2,205 and a substantial car allowance will be paid. Full particulars of the conditions of appointment can be obtained from the undersigned.

No canvassing.

IAN A. MACKNIGHT,

County Clerk of Angus.  
County Buildings,  
Forfar,  
October, 1959. [5692]

### APPOINTMENTS (cont)

**University of Sydney**  
**LECTURESHIP IN ARCHITECTURE**  
APPLICATIONS are invited for the above position. The duties of the Lecturer will include responsibility for practical studio instruction in the First and Second Years of the course as well as appropriate lecture courses.

The salary for a Lecturer is within the range £A1,500 x £A90—£A2,100 per annum, plus cost of living adjustment and will be subject to deductions under the State Superannuation Act. The commencing salary will be fixed according to the qualifications and experience of the successful applicant.

Under the Staff Members' Housing Scheme, in cases approved by the University and its Bankers, married men may be assisted by loans to purchase a house.

Further particulars and information as to the method of application may be obtained from the Secretary, Association of Universities of the British Commonwealth, 36 Gordon Square, London, W.C.1.

Applications close in Australia and London on November 24, 1959. [5671]

### University of Auckland New Zealand CHAIR OF ARCHITECTURAL CONSTRUCTION

APPLICATIONS are invited for the above-mentioned post.

The salary will be £2,190 per annum and an allowance will be made towards travelling expenses.

Further particulars and information as to the method of application may be obtained from the Secretary, Association of Universities of the British Commonwealth, 36 Gordon Square, London, W.C.1.

Applications close on November 30, 1959. [5672]

### Fife County Council

PLANNING Department—Assistant County Planning Officer required. Salary scale: £1,250 to £1,350. Candidates should be members of Town Planning Institute but other qualifications an advantage. Applicants having wide experience, particularly on development plan work with a county authority, will be given preference.

Housing accommodation may be available. Applications, giving full particulars and names of three referees, to be lodged by October 31, 1959, with the undersigned. No canvassing.

MATTHEW POLLOCK,

County Buildings,  
Cupar, Fife. [5673]

### Derbyshire County Council

County Planning Department  
THERE are vacancies in the Development Plan, Development Control and the Architectural Sections of the Headquarters Office of the Department.

**Junior Planning Assistants.** Salary within Grade APT I (£610/£765).

Applicants should be University Graduates or have passed the Intermediate Examination of the Town Planning Institute or equivalent. Appointment subject to National Joint Council Conditions of Service. Superannuation scheme and medical examination.

Application forms from the County Planning Officer, County Offices, Matlock, to be returned by November 16, 1959, together with one testimonial. [5675]

### Borough of Bexley ASSISTANT ARCHITECT

APPLICATIONS are invited for this appointment at a salary within the Special Scale (£785/£1,070 per annum) plus London Weighting.

Candidates should have experience in school and housing projects and must have passed the R.I.B.A. Final.

Form of application and conditions of appointment are obtainable from the Borough Engineer, West Lodge, Broadway, Bexleyheath, Kent, to whom completed applications must be returned by November 2, 1959. The Council may be prepared to assist in the provision of housing accommodation.

Canvassing will disqualify.

ARTHUR GOLDFINCH,

Town Clerk. [5688]

### APPOINTMENTS (cont)

#### Harlow Urban District Council

#### require an ARCHITECTURAL ASSISTANT

SALARY: APT II (£765/£880) or APT III (£880/£1,065) according to qualifications and experience. Appointment subject to medical examination.

The Urban District embraces the New Town of Harlow and has a rapidly increasing population scheduled to reach 80,000 by 1965. The Department is actively engaged on several major projects including a swimming pool and a crematorium as well as the normal development projects of local authority service.

Housing accommodation will be made available and removal expenses paid.

Applications in writing, giving names of two referees, to be made to the Engineer and Surveyor, A. W. R. Webb, A.M.I.C.E., M.I.Mun.E., Nettleswell Hall, Harlow, Essex, not later than October 24, 1959. [5674]

#### Somerset County Council

#### Architect's Department

APPLICATIONS are invited for the following appointments on the established staff, viz.:

(a) **Senior Assistant Architects**, APT Grade IV (£1,065/£1,220).

Applicants for posts in this grade must be Associate Members of the Royal Institute of British Architects with a good standard of design ability and a sound knowledge of modern methods of construction and be capable of handling projects from sketch plans to completion.

(b) **Assistant Architects**, Special Grade (£785/£1,070).

Applicants must have passed Parts I and II of the R.I.B.A. Final or Special examination, or the equivalent at one of the recognized schools of architecture. Commencing salary will be within the grade, dependent upon the candidate's qualifications and experience.

(c) **Architectural Assistants**, APT Grade I (£610/£765).

Applicants must have passed the Intermediate examination of the Royal Institute of British Architects.

(d) **Junior Quantity Surveyors**, APT I (£610/£765).

Applicants must have passed the Intermediate examination of the Royal Institution of Chartered Surveyors and to have had several years' experience in an approved office.

(e) **Junior Assistant Engineer**, APT I (£610/£765).

Applicants must have passed Section A or Joint Part I Institution of Heating and/or Electrical Engineers examination. Local Authority experience not essential.

(f) **Junior Assistant Engineer**, H.G.D. (£210/£595).

Applicants must have passed G.C.E. at Ordinary Level in English (or English Language), Mathematics or a Science and one other paper.

All appointments are superannuable and subject to the usual conditions of Local Government Service. Applications, accompanied by the names of two persons to whom reference can be made, should reach the undersigned not later than Monday, October 26, 1959.

R. O. HARRIS, F.R.I.B.A.,

County Architect.

The Crescent,  
Taunton. [5695]

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**BUILDING TECHNIQUE FOR DOMESTIC AND SIMILAR STRUCTURES**. Edwin Gunn, A.R.I.B.A., Revised by John Brandon-Jones, A.A.Dip., I.R.I.B.A., 3rd edition. Fully revised edition of a well-known reference book on constructional design (formerly "Modern Building Technique"). Containing a lifetime of first-hand experience, proved on the building site, it is an indispensable tool for both the architect and the builder. A valuable feature is the large number of references to publications of such bodies as the Building Research Station and the British Standards Institution. 21s net, from all booksellers, 22s 2d by post from The Publishing Department, Iliffe & Sons Ltd., Dorset House, Stamford Street, London, S.E.1.

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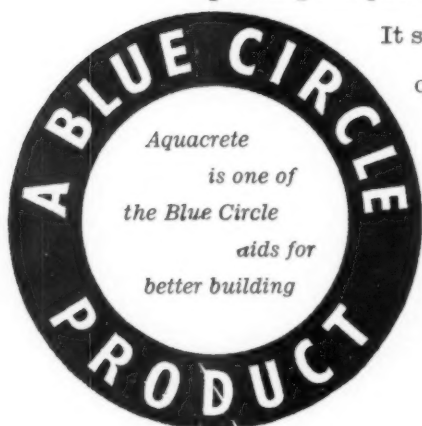
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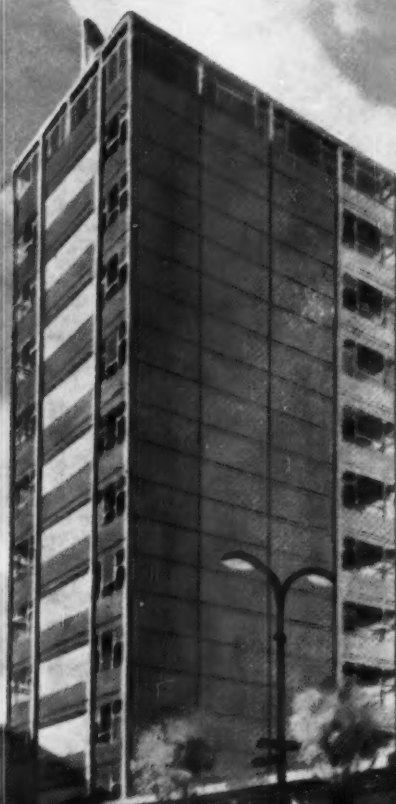
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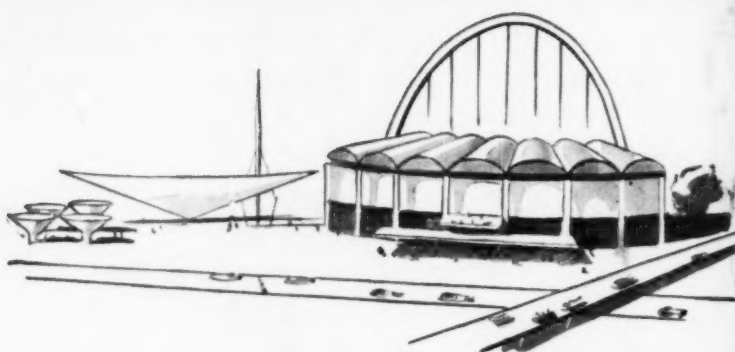
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